

NovaCloud Solution User's manual



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1 Summary

Nova Cloud is a set of software used for multimedia remote centralized publication and system centralized monitoring based on broadband internet to provide the industry application solution featured in safety, reliability, centralized management and standardization and easy extension for LED display cluster control and other display cluster systems.

Nova Cloud solution mainly includes three parts which are Nova Cloud server, integrated playback control software(MC-go), terminal software (MarsSite, PlutoSite). It can fully support Nova synchronous and asynchronous control systems.

When it is applied to the synchronous control system, it includes Nova Cloud server, MC-go, and MarsSite. The terminal is a playback control computer, to run the terminal software MarsSite. When it is applied to the asynchronous control system, it includes Nova Cloud server, MC-go, and PlutoSite. Asynchronous control card PSD100 shall be as the terminal to run the terminal software PlutoSite.

Terminal is managed by management center (MC-go), to achieve the functions such as schedule creating, publishing, monitoring, etc. Management center uploads the commands and playback information to the server, the terminal periodically downloads the commands and schedule from server and transfers the feedback information back to the server; the terminal and MC-go account must be registered on the server, and otherwise, the interaction among the three cannot be achieved.

1.1 System Features

- Centralized release

Base on the broadband Internet architecture, support the standard HTTPS (HTTP+SSL) and FTPS(FTP+SSL) server, provide the safe and reliable high speed information release and download service, and remotely, centralizedly and standardizedly manage the media release.

- Remote monitoring

Base on the leading Nova monitoring system, support remotely and centralizedly collecting the running parameters of display screen, intuitively and comprehensively control system operation state in real time, support alarm function for the fatal problems occur to the system, and provide efficient system maintenance business environment.

- Layered protection

The system uses multiple security measures, covering all aspects of data storage, transmission and play and so on, so as to ensure data consistency and reliability.

The system uses the registration mode to manage the terminal access and MC-go authority, ensuring that the system access security is controlled.

- Media management

All terminals of one user share one media library, and the system doesn't upload repeatedly while terminals playing the same media or play schedule including the same media, which improves the media release efficiency and saves server space.

➤ Easy to extend

Nova Cloud server system adopts extensive system architecture to support deployment from single server to multiple acceleration servers so as to meet the demands of different scale of cluster application from several terminals to thousands of them.

The system is easy to expand, which provides users with optimal solutions both for cost and performance, and the system will gradually increase deployment as business grows, so as to protect customers' investments.

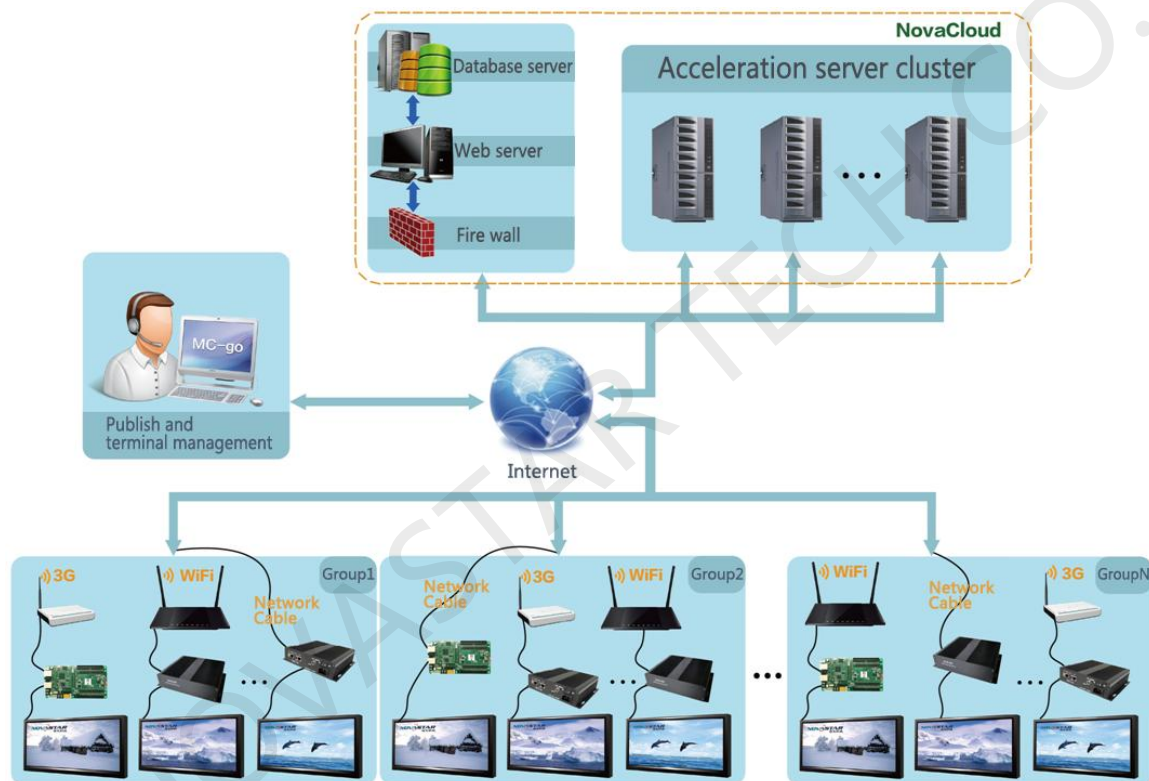
➤ Autonomous terminal

The terminal software is autonomous, and unattended.

The terminal automatically interacts with the system, automatically download schedule , automatically detects the system status and reports to the system, automatically obtains a system control command and then executes such command, feedbacks execution results to the system, without human intervention.

1.2 Program's Network Architecture

The network architecture of Nova display cluster management program is as follows:



1.3 Equipment Requirements

1) Service Platform Nova Cloud

The service platform Nova Cloud is composed of Web server, database server and acceleration server cluster. In terms of safety, it must be furnished with hardware fire wall; in terms of bandwidth, it must be deployed in backbone networks. It must be ensured that every terminal has at least more than 2M bandwidth.

Routine maintenance is important to guarantee uninterrupted normal service of the service platform Nova Cloud. Nova has a professional service platform maintenance team.

2) Management Center Computer

Used to run MC-go software to fulfill functions such as preparation of playing scenario, remote release and remote monitoring; it needs to get access to the Internet. The bandwidth is recommended to be more than 4M.

Computer hardware equipment requirements

CPU: dual-core, above 2.4Ghz

- Hard disk SCSI interface, volume above 500GB
- Video card: graphics card: discrete graphics, hardware 3D acceleration, video memory above 1G

Management center computer software

- Operating system environment: windows XP SP3, Windows 7 32bits
- Installed component: Microsoft .NET Framework 4.0
- Management center software: MC-go

3) Terminal

a) Synchronous Terminal: Mars-Site

The terminal computer is the control computer of LED or LCD displays. Apart from guaranteeing the requirements of LED or LCD displays, it shall specifically meet the following requirements.

Terminal hardware equipment requirements

- CPU: dual-core above 2.4GHz
- Hard disk: above 300GB
- Graphics card: discrete graphics, hardware 3D acceleration, video memory above 1G

Terminal software

- Operating system environment: windows XP SP3, Windows 7 32bits, 64bits;

- Installed component: Microsoft .NET Framework4.0
- Nova Cloud terminal master control software

b) Asynchronous Terminal

The terminal adopts NOVA asynchronous play box PBOX100. Local IP is set to automatically obtain IP; corresponding server parameters shall be set correctly.

2 Installation and deployment

2.1 M3 System terminal deployment

M3 System terminal is the terminal master control software (called " MarsSite " for short) running on the master control computer of the display screen.

Nova Cloud terminal software package is a standard Windows Setup software installation package located at the following CD path of the system:

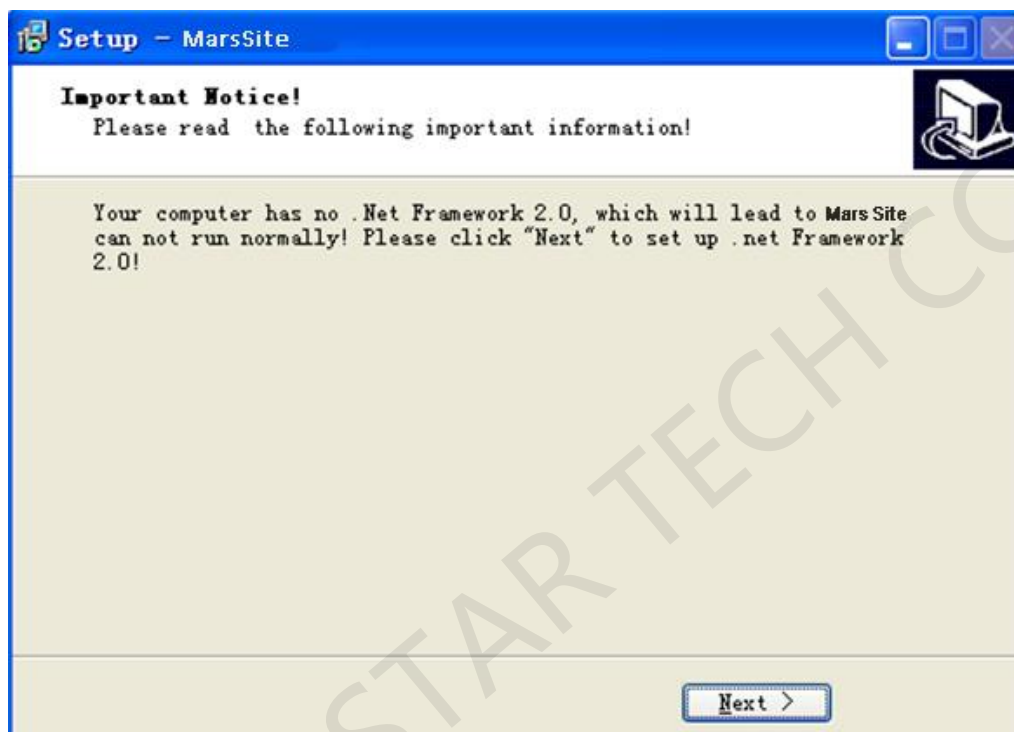
\\Nova Cloud\\ MarsSite \\Marssite Setup.exe.

2.1.1 MarsSite installation

Start the Marssite Setup.exe on the disc to begin installation of Nova Cloud terminal, its installation steps are the same as the ordinary software, and in the installation process, pay attention to the following matters.


Installation Notice:

- 1) During the installation process, if the current computer is installed with anti-virus software, the warning dialog box will pop up, Please Just select "this operation is permitted" or "all operations of the program are permitted" and click "OK" to continue.
- 2) During the installation process, if the computer is not installed with Microsoft.NET Framework2.0., prompt box shown in Fig. 3-10 will pop up, and at this moment, click "Next", the system will automatically complete the installation.



2.1.2 General settings of the terminal computer

Terminal is the remote unattended automated software, so terminal computer is required to keep some general settings to avoid inability of automatic running.

	<p>Circumstances require for manual intervention mainly include:</p> <ol style="list-style-type: none">1) It is available to automatically start the operation system and login;2) You should automatically connect to the network, and disconnected automatic reconnection mechanism shall be equipped;3) Can not keep dormant;4) Screen protection is unavailable;5) Start and shutdown normally and don't power off violently.6) If there is a firewall, properly configure the open ports;
---	---

2.2 MC-go deployment

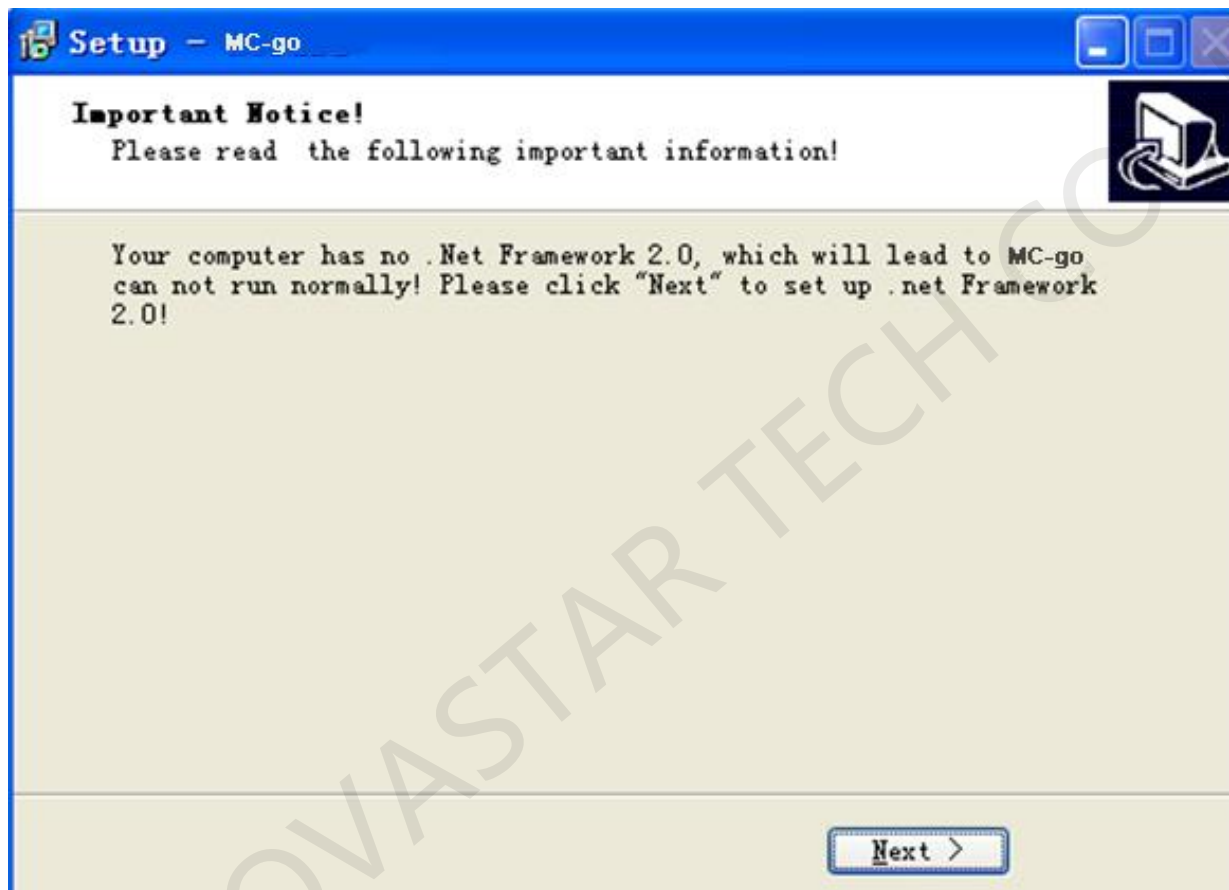
Prior to the MC-go deployment, it is required to confirm if the operating system and .NET Framework meet the demands, which is detailed at clause [1.3 Equipment requirements](#). NetFx20SP1_x86.exe patch shall be installed where necessary.

The software package of MC-go is the standard Windows Setup software installation package, and the CD path of operation and maintenance program software installation package is: \Nova Cloud\MC-go\MC-go Setup.exe.

The installation steps are the same as common software and as per guide instructions. Attention should be paid to the following items during installation.

Installation Notice:

- 1) During the installation process, if the current computer is installed with anti-virus software, it will pop up a warning dialog box, simply select "Allow the Operation" or "Allow All Operations of the Program" , and click "OK" to continue.
- 2) During the installation process, if the current computer is not installed with Microsoft.NET Framework2.0., prompt box shown in following fig. will pop up, and at this moment, click "Next", the system will automatically complete the installation.



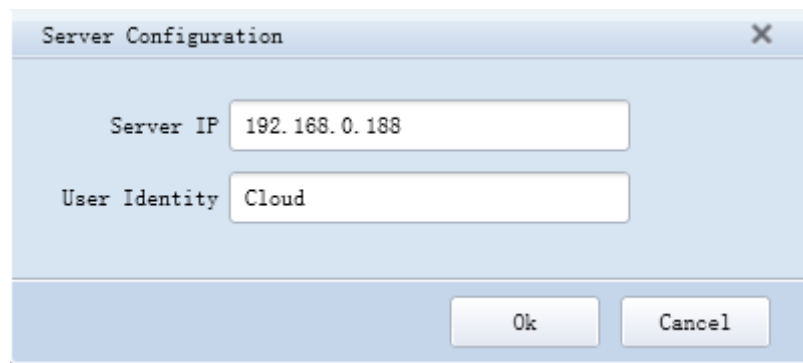
3 Information Registration

The server administration authority is the supreme authority of Nova Cloud system. The relevant information must be registered at the Cloud server, including Terminal group, Terminal, Role, MC-go accounts, System, Contact etc., and otherwise the system will deny access.

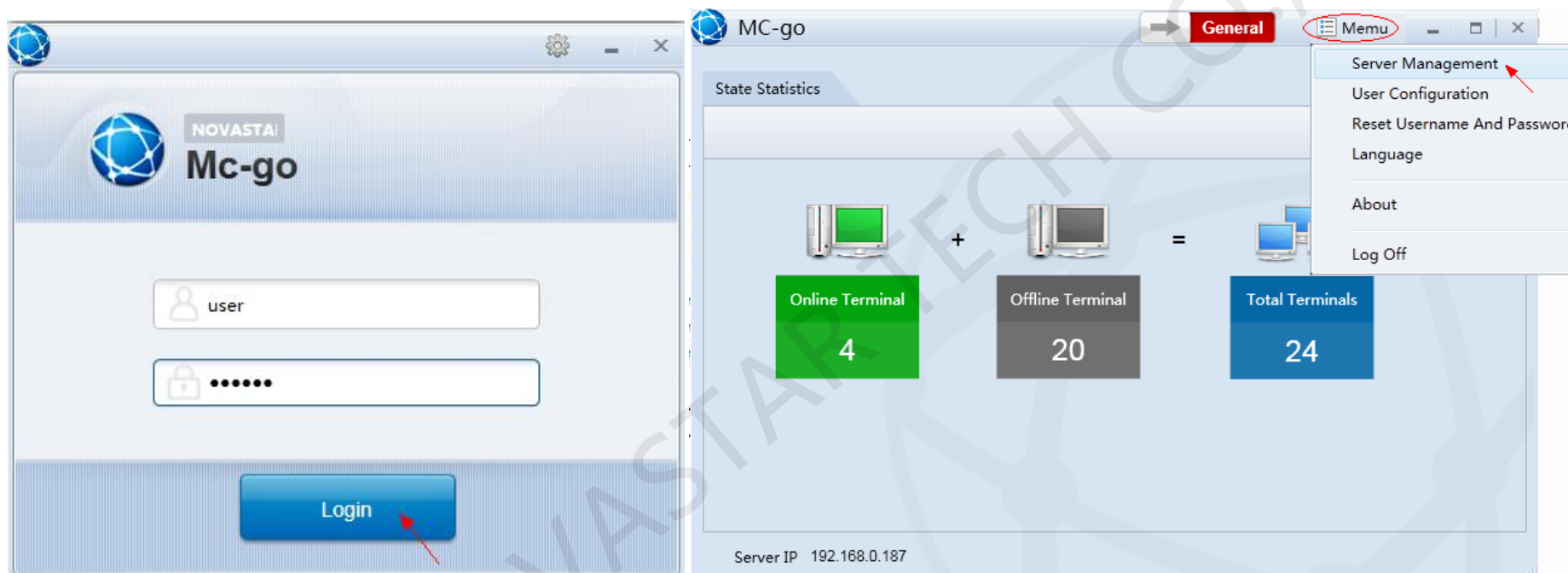
Log in the Cloud server as per the following steps:

- 1) Run MC-go, and on the login interface, click on , to enter the server IP (LAN : the default is 192.168.0.188 , WAN : The IP assigned by IDC)

User Identity: "Cloud" , then click on "OK" .



- 2) Login MC-go. For the initial login, the user name shall be "admin", the password shall be "123456", and after entering the MC-go main interface, click 【Menu】 → 【Server Management】, to enter the Nova Cloud server manager center.








There is a problem with this website's security certificate.

The security certificate presented by this website was not issued by a trusted certificate authority.
The security certificate presented by this website was issued for a different website's address.

Security certificate problems may indicate an attempt to fool you or intercept any data you send to the server.

We recommend that you close this webpage and do not continue to this website.

-  [Click here to close this webpage.](#)
-  [Continue to this website \(not recommended\).](#)
-  [More information](#)

SYSTEM MENU

- Group management
- Terminal management
- Role management
- Account management
- Contact management
- Backup/restore
- Log view
- System information

Terminal

Name	MAC	Name	Equipment	Monitor	Operation
ter1	00-25-11-38-7F-09	gr1	M3	Yes	View Edit
win1000	10-78-D2-18-C1-25	gr1	M3	Yes	View Edit
youbu	10-78-D2-28-62-21	gr1	M3	Yes	View Edit
ZJKT	20-41-53-59-4E-FF	gr1	M3	Yes	View Edit
ZJP	30-31-53-00-00-22	gr1	Pluto	Yes	View Edit

Add

Group

Name	Accelerated server	Operation
sangzhe	Master server(192.168.0.186)	Edit
gr6	Master server(192.168.0.186)	Edit
gr5	Master server(192.168.0.186)	Edit
gr4	Master server(192.168.0.186)	Edit
gr3	Master server(192.168.0.186)	Edit

Add

Contacts

Name	Mobile number	Operation
zholi	13548562547	View Edit
jenny	15029939999	View Edit
NovaStar	40026665988	View Edit

Add

3.1 Group management

This system manages the terminals in accordance with the grouping way. It is available to group according to the features of all zones of terminals to facilitate the management and unified release of the play schedule, and besides, it is allowed to set the grouping authority, where only some people are allowed to operate the grouping.

Click 【add】 under

【group】 menu to start to add groups.

Complete the basic information required

for each step

according to the

prompts. If the group

information input

currently fails to pass

The screenshot shows the NovaCloud Group management interface. The sidebar menu on the left includes 'Group management', 'Terminal management', 'Role management', 'Account management', 'Contact management', 'Backup/restore', 'Log view', and 'System information'. The 'Group management' menu item is highlighted with a red box. The main content area displays a table of groups with the following columns: Group name, Client name, Contact, Accelerated server, and Operation. The table contains 7 entries. The 'Add group' button is circled in red at the bottom left of the interface.

	Group name	Client name	Contact	Accelerated server	Operation
<input type="checkbox"/>	sangzhe	sz	NovaStar	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr6	zxn	jenny	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr5	zxn	jenny	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr4	zxn	jenny	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr3	zxn	jenny	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr1	zxn	jenny	Master server(192.168.0.186)	Edit Delete
<input type="checkbox"/>	gr2	zxn	jenny	Master server(192.168.0.186)	Edit Delete

Showing 1 to 7 of 7 entries

← Previous 1 Next →

[Add group](#) [Delete the selected group](#)

system verification, you will be unable to enter the next step. For data whose current verification is incompliant, the title ahead of its input box is red. If verification fails, please correct the current data format according to prompts.

Editing of registration information: in addition to revising inaccurate registration information, it also supports accelerated server migration.

3.2 Terminal management

The terminal must be

registered to the master server, so as to be able to access the system. Like registration grouping, all input parameters should be accurate to facilitate view while conducting the maintenance.

The screenshot displays the 'Add terminal' form within the NovaCloud system. The interface includes a sidebar menu with options like Group management, Terminal management, Role management, Account management, Contact management, Backup/restore, Log view, and System information. The main form fields are as follows:

- MAC ***: Input field with placeholder 'xx-xx-xx-xx-xx-xx [xx is hexadecimal digit]'.
- Group ***: Dropdown menu with 'Please select'.
- Name ***: Input field with placeholder 'Letters and numbers, at the length of 3 to 30'.
- Password ***: Input field with placeholder 'Letters and numbers, at the length of 6 to 16'.
- Heartbeat cycle**: Dropdown menu with '60' selected.
- Monitoring or not**: Dropdown menu with 'Yes' selected.
- Download period**: Time range selector from 00:00:00 to 23:59:59.
- Terminal equipment**: Dropdown menu with 'M3' selected. A red text overlay reads: 'Synchronization System: M3 Asynchronous: Pluto'.
- SSL setting**: Dropdown menu with 'Close' selected.
- Contact ***: Dropdown menu with 'NovaStar' and a plus icon for additional contacts.
- Display screen height ***: Input field.
- Display screen width ***: Input field.
- Display screen location**: Input field.

At the bottom of the form are 'Submit' and 'Cancel' buttons.

Tips: The terminal's registered password must be put on the record; the terminal software must set the correct password so as to pass the check of the system, and successfully interact with the system.

The terminal editing function can amend inaccurate terminal registration information to make the terminal information more easily identified in the system.

3.3 Role management

Different roles shall be defined, and function authority for each role shall be classified; and the authority includes the group management, account management, terminal management, role management, system information, backup / restore, contact management, log view and interface interactive application. The users can modify the role name, status and other information through the role editing.

SYSTEM MENU

- Group management
- Terminal management
- Role management**
- Account management
- Contact management
- Backup/restore
- Log view
- System information

Role management

Role list

Show 10 entries

Search:

<input type="checkbox"/> Select all	Name	State	Remarks	Operation
<input type="checkbox"/>	admin	Normal	Highest authority	Authorization Edit Delete
<input type="checkbox"/>	user1	Normal	gr1 gr2	Authorization Edit Delete
<input type="checkbox"/>	user2	Normal	gr3 gr4	Authorization Edit Delete
<input type="checkbox"/>	user3	Normal	gr5 gr6	Authorization Edit Delete
<input type="checkbox"/>	user4	Normal	no monitoring	Authorization Edit Delete
<input type="checkbox"/>	user5	Normal	creating playprogram	Authorization Edit Delete

Showing 1 to 6 of 6 entries

[← Previous](#) [1](#) [Next →](#)[Add role](#)[Delete the selected](#)

NovaCloud

SYSTEM MENU

- Group management
- Terminal management
- Role management
- Account management
- Contact management
- Backup/restore
- Log view
- System information

Role management / Add role

Add

Name * Serial number State Remarks

SYSTEM MENU

Group management

Terminal management

Role management

Account management

Contact management

Backup/restore

Log view

System information

Role management

Role list

Show 10 entries

Search:

<input type="checkbox"/> Select all	Name	State	Remarks	Operation
<input type="checkbox"/>	admin	Normal	Highest authority	Authorization Edit Delete
<input type="checkbox"/>	user1	Normal	gr1 gr2	Authorization Edit Delete
<input type="checkbox"/>	user2	Normal	gr3 gr4	Authorization Edit Delete
<input type="checkbox"/>	user3	Normal	gr5 gr6	Authorization Edit Delete
<input type="checkbox"/>	user4	Normal	no monitoring	Authorization Edit Delete
<input type="checkbox"/>	user5	Normal	creating playprogram	Authorization Edit Delete
<input type="checkbox"/>	manager	Normal	View logs	Authorization Edit Delete

Showing 1 to 7 of 7 entries

[← Previous](#) 1 [Next →](#)[Add role](#)[Delete the selected](#)

SYSTEM MENU

Group management

Terminal management

Role management

Account management

Contact management

Backup/restore

Log view

System information

Role management / Role authorization

Functional authorization

Management applications

Group management

Add

Modify

Delete

Terminal management

Add

Modify

Delete

Role management

Add

Modify

Delete

Authorization page

Execute authorization

Account management

Add

Modify

Delete

Password reseted

Contact management

Add

Modify

Delete

Backup/restore

Backup

Restore

Download

Delete

Log view

Delete

System information

Modify

Interface interactive application

Client permission

Establish

Monitor

Play programme preparation

Submit

Cancel

3.4 Account management

MC-go is the joint name of system operation and maintenance business software tools. To register the account, it is available to separately specify the role corresponding to each account and the group scope can be managed.

Adding a management center account can be completed in four steps: setting the account name, setting the password, setting the role, and ticking the group scope.

<input type="checkbox"/>	Username	Password	Creation Time	Status	Email	Actions
<input type="checkbox"/>	zhaoli	lili	2014-02-25 02:38:44	On line	nova_yu@126.com	Edit Delete Reset password
<input type="checkbox"/>	zjk	zjk	2014-02-19 03:53:49	Off line	nov_zhoujk@126.com	Edit Delete Reset password
<input type="checkbox"/>	novastar	nova	2014-02-10 09:19:58	Off line	nova@126.com	Edit Delete Reset password
<input type="checkbox"/>	dfd	dfd	0000-00-00 00:00:00	Off line	fgf@126.com	Edit Delete Reset password
<input type="checkbox"/>	zhangxn	dfdsfsf	2014-01-23 01:28:11	Off line	sfj@126.com	Edit Delete Reset password
<input type="checkbox"/>	yp01	panoan	2014-02-15 06:19:37	Off line	qq@126.com	Edit Delete Reset password

Showing 1 to 10 of 17 entries

← Previous 1 2 Next →

[Add account](#) [Delete the selected account](#)

Add

Account name *

zhaoli

Real name

lily

Password *

.....

Confirm the password

.....

Personnel role *

admin

Mailbox *

nova_zhaoli@126.com

Manage groups

111,112,113,114,115,116,117,118,120,121

☒ ALL

☒ 111

☒ 112

☒ 113

☒ 114

☒ 115

☒ 116

☒ 117

☒ 118

☐ 119

☒ 120

☒ 121

☐ 12133

☐ 122

☐ 123

Submit

Cancel

Nova Cloud can redistribute role and resize the scope of authority by editing accounts of MC-go.

3.5 System information

In order to reduce the burden on the server, a clear cycle (one week, one month, one quarter, half a year or one year) can be set to regularly clear away the media on the server which has expired and has not been used by any terminal.

The screenshot displays the 'System set up' interface in the NovaCloud management system. On the left is a 'SYSTEM MENU' sidebar with options: Group management, Terminal management, Role management, Account management, Contact management, Backup/restore, Log view, and System information. The main area is titled 'System set up' and contains three configuration fields: 'System name' with the value 'zhaoli', 'Authorized terminal' with the value '50', and 'Clear cycle' with a dropdown menu. The dropdown menu is open, showing options: 'One month', 'Do not enable', 'One week', 'One month' (highlighted in blue), 'One quarter', 'Half a year', and 'One year'. The top of the interface features a blue header with the 'NovaCloud' logo, a user profile 'eva', and a 'Change Theme' button.

Field	Value
System name	zhaoli
Authorized terminal	50
Clear cycle	One month (selected)

3.6 Backup/Restore

Registration Data is the key data of the Nova Cloud. Nova Cloud system can not run without registration data. It must be possible to quickly restore registration data after the system encounters the great disaster, and then the system will be able to re-enter the running. Nova Cloud can backup register data, we recommend you regularly backing up the latest system register data for emergency needs.

1) Backup

Click "backup", and then under the data restore there shall be one more file, and this file contains the current registered data of the system and can be downloaded to the local computer to be stored.

NovaCloud

eva

Change Theme

SYSTEM MENU

Group management

Terminal management

Role management

Account management

Contact management

Backup/restore

Log view

System information

Database backup/restore

Backup

Backup database

Backup type ☒ Data backup

Backup

Restore

Database restore (restore has risk, please be careful for operating)

Restore type ☒ System restore ☐ User-defined restore

File name	Backup type	Backup date	File size(KB)	Operation
-----------	-------------	-------------	---------------	-----------

Restore

2) Data restore

- a) Method 1: check “system restore”, and then check one backup file, and then click “restore” .
- b) Method 2: check “user-defined restore”, and then click “click to upload”, to upload the previously downloaded backup file.

Database backup/restore

Backup

Backup database

Backup type ☒ Data backup

Backup

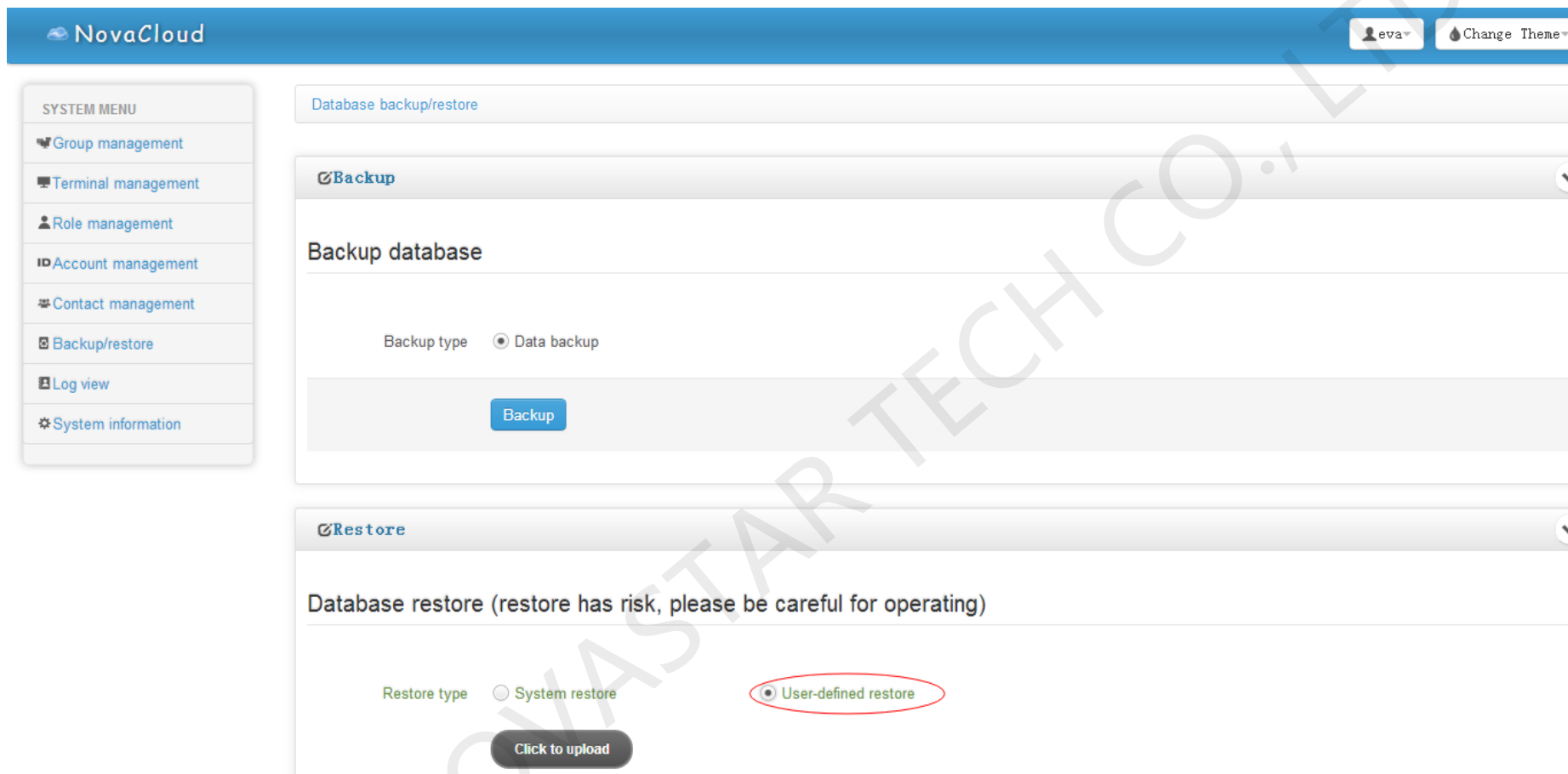
Restore

Database restore (restore has risk, please be careful for operating)

Restore type ☒ System restore ☐ User-defined restore


	File name	Backup type	Backup date	File size(KB)	Operation
<input type="checkbox"/>	zhaoli_20140408102930_DATA_4725.sql	Data backup	2014-04-08 10:29:30	61	Download Delete


Restore



3.7 Contact management

Each group corresponds to one contact, and when the terminals in the group are abnormal, the system will notify the contacts by mobile phone or email at the first time.

 NovaCloud

eva  Change Theme

SYSTEM MENU

Group management

Terminal management

Role management

Account management

Contact management

Backup/restore

Log view

System information

Contact management

Contact list

Show 10 entries Search:

<input type="checkbox"/> Select all	Name	Mobile number	Mailbox	Address	Operation
<input type="checkbox"/>	zholi	13548562547	nova_yuanpan@126.com	keji road no-2 xi an	View Edit Delete
<input type="checkbox"/>	jenny	15029939999	zxn045@163.com	Yan ta road	View Edit Delete
<input type="checkbox"/>	NovaStar	40026665988	nova_sale@126.com	Gao xin road	View Edit Delete

Showing 1 to 3 of 3 entries

[← Previous](#) [1](#) [Next →](#)

[Add new contact](#) [Delete the selected contact](#)

4 Terminal software configuration

4.1 Synchronization Terminal

Synchronization terminal settings include three major parts: terminal settings, display setting as well as picture monitoring.

4.1.1 Synchronization terminal (MarsSite)setting

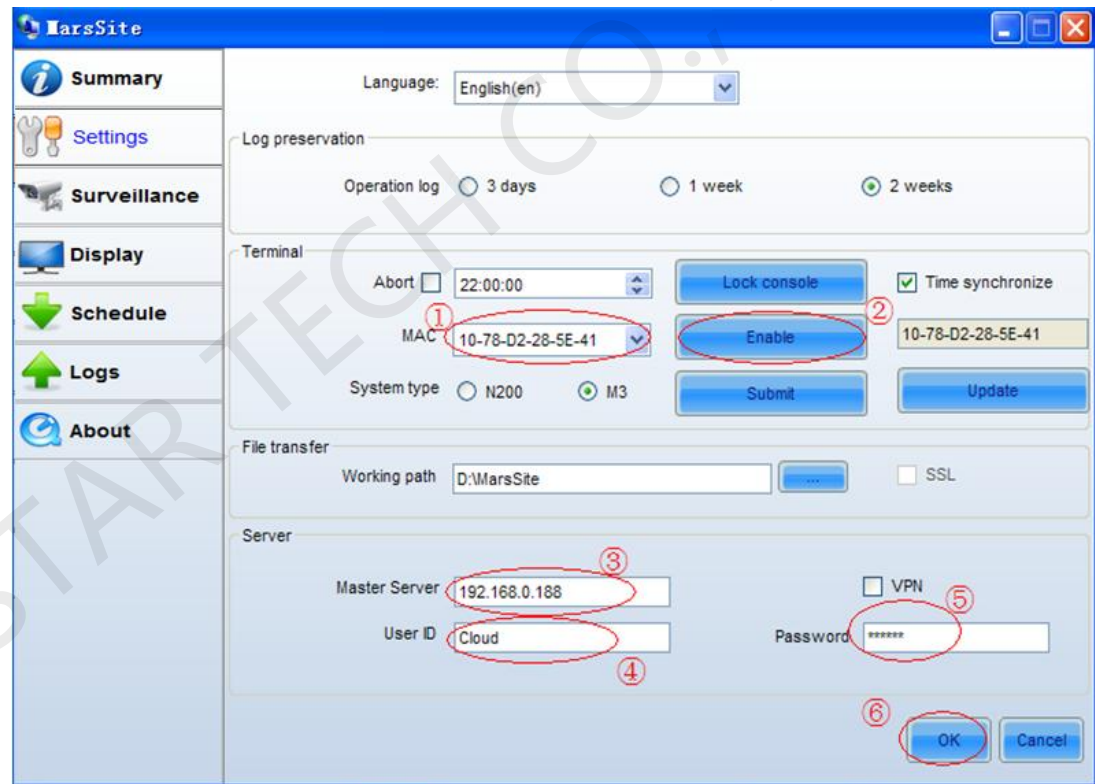
Run MarsSite on the terminal computer, and enter the terminal setting page to set up four important options:

- 1) Enable MAC (select the MAC address being used on the computer and already registered on the server);
- 2) Fill out the master server IP (see shipping parameters);
- 3) Fill out your own user ID (see shipping parameters);
- 4) Fill out the terminal password (password set up while registering terminal).

4.1.2 Picture monitoring

There are two ways to monitor the pictures for Nova Cloud:

- If the user site has not been equipped with a camera, it is available to obtain the control computer desktop screenshot capture to indirectly know the playing situation of the display through screenshot capture, and as long as the monitor is working normally, the playing contents shall be same as it is seen on the desktop;



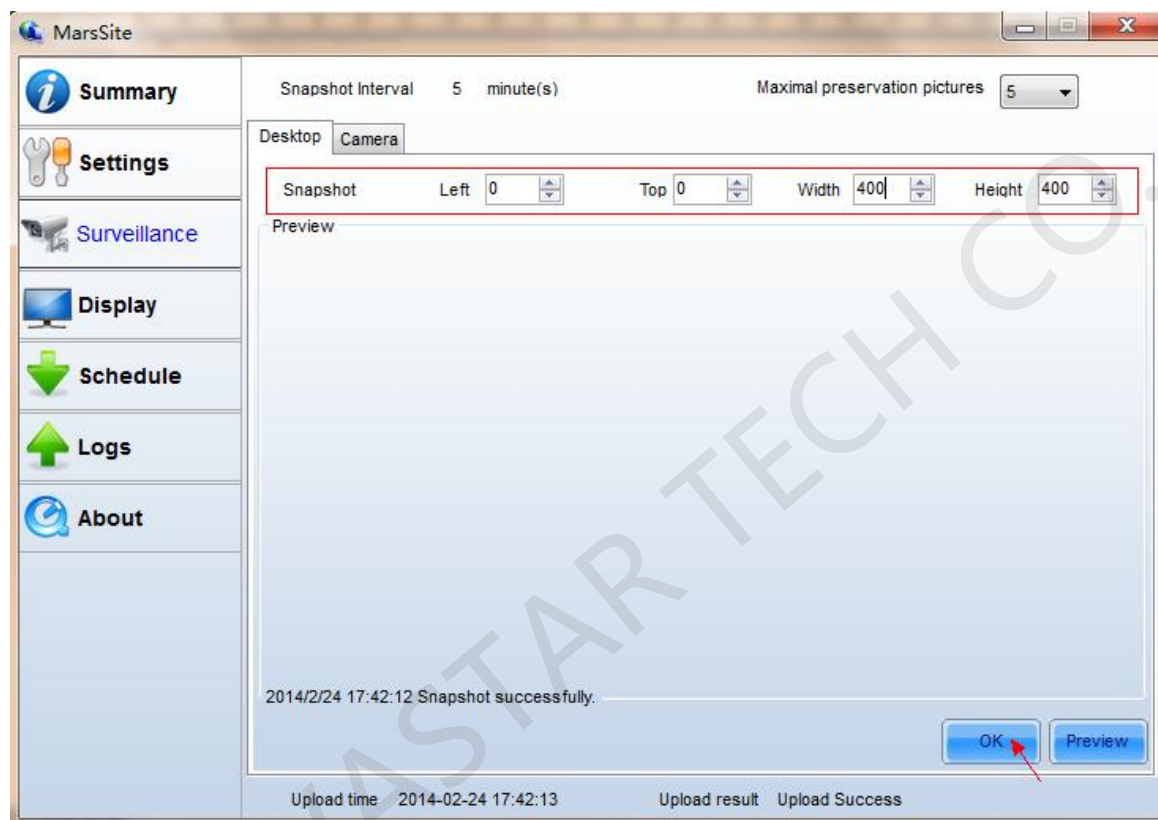
- If the site is equipped with a USB camera or a network camera (the camera is connected into one local area network together with control computer), it is allowed to use the camera to take photos of the site.

Tips: it is required to set whether the terminal shall enable or disable the desktop screenshot capture and camera at the client terminal(MC-go), and set the shooting period, and then send the command to the terminal; and after the command has been successfully sent, the terminal shall automatically shoot screen or pictures according to the period, and upload the pictures to the server.

1) Desktop snapshot settings

Desktop snapshot settings include to set camera coordinates and photographs region, in order to be consistent and camera resolution, desktop screenshots default resolution is set to 1280X720, but it is best to set consistent with the display of the mapped area, usually this can save storage space.

Desktop snapshot settings are as shown below:

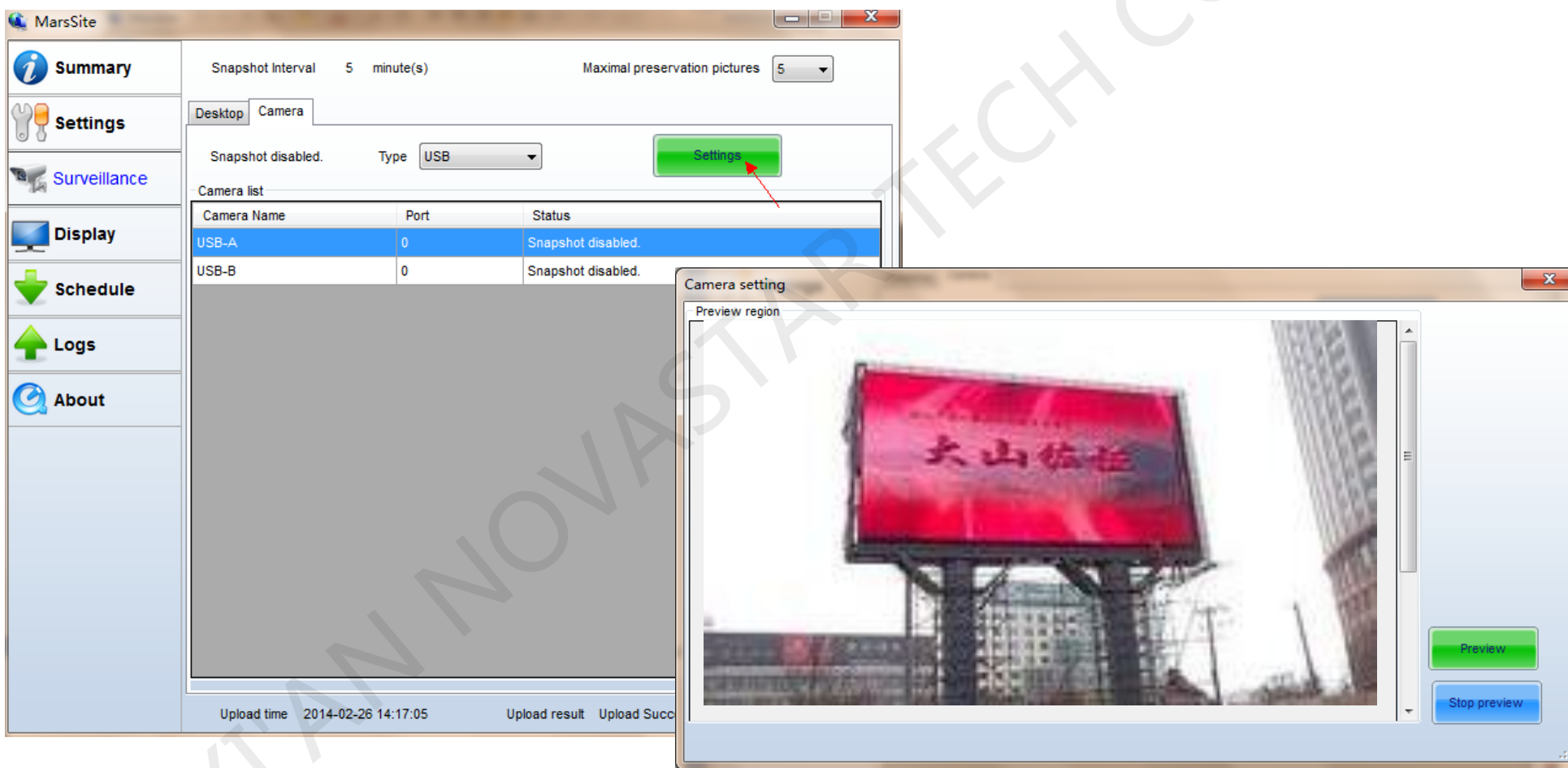


2) Camera setting

The system supports shooting surveillance through network camera, and please configure the network camera according to the network camera manufacturer's instructions, and form LAN through the switch or other network equipment.

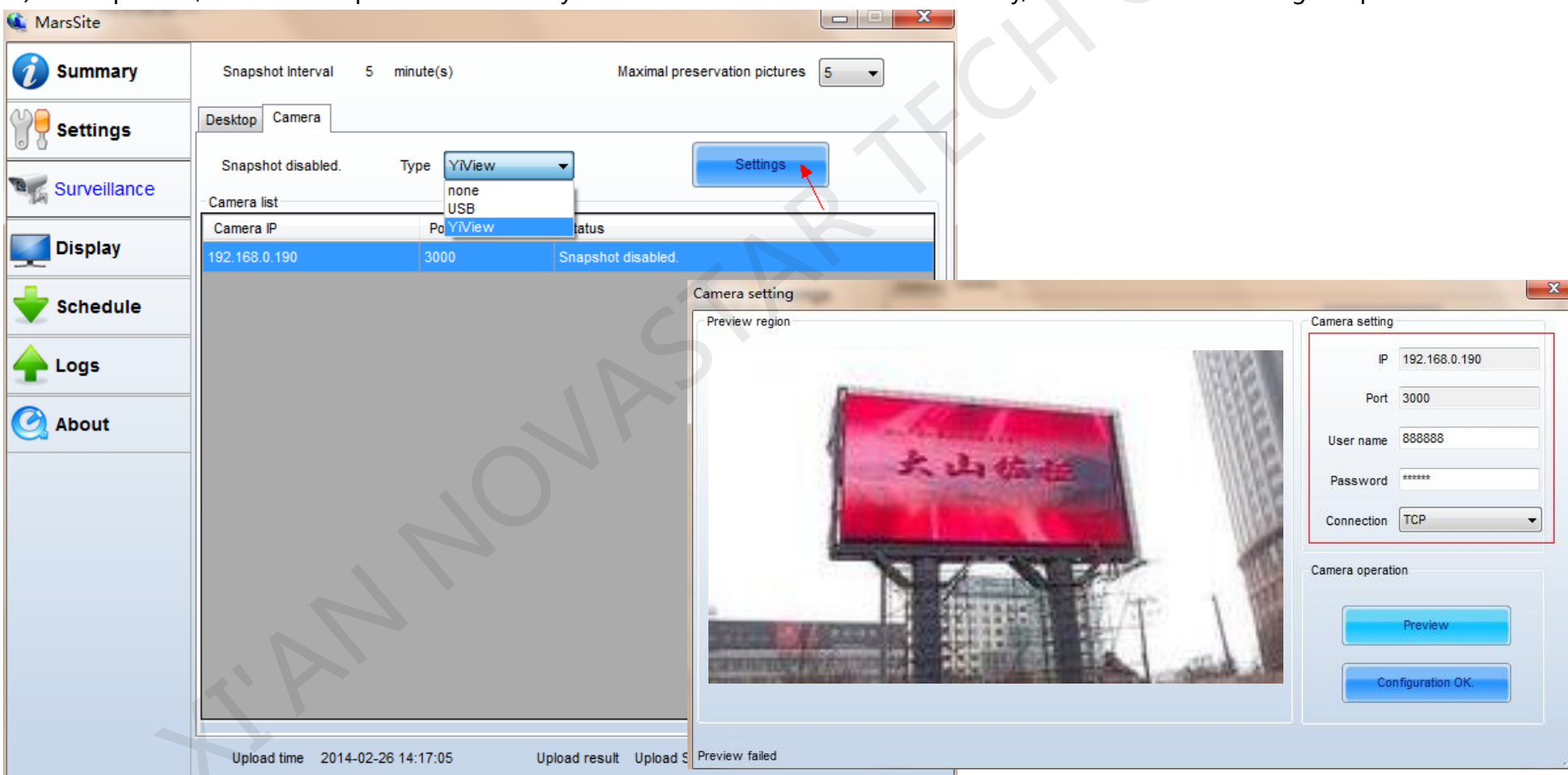
According to the practical conditions, select the camera type (USB type or YiView type(network camera)), and while using the network camera, it is required to configure the camera information.

USB camera:



IP camera:

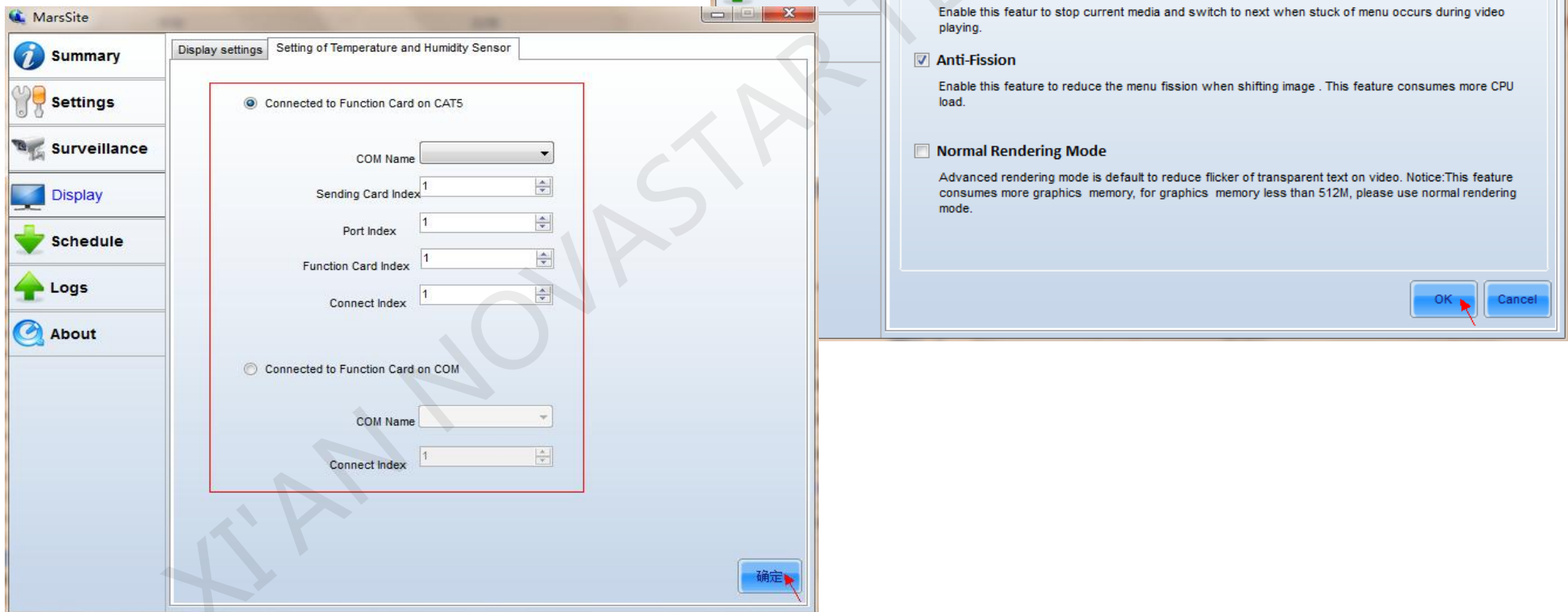
- a) Set the user name and connection manner of camera. The user name must be specified, and while viewing the picture surveillance in the management center, the pictures shall be displayed according to the user names by pages.
- b) Start preview, and after the preview successfully confirms that the camera works normally, click the button "setting completed" .



4.1.3 Display

The terminal, in playing the schedules, needs to determine based on the position and size of the display size, so that it can be correctly displayed on the LED display.

While terminal is connected to a temperature and humidity probe, it is required to configure the relevant information here .



4.1.4 Terminal lock and unlock

The terminal is the autonomous system, in order to prevent the illegal operation of computer terminal, the terminal can be locked in the terminal local or MC-go; the password in the local input terminal can be unlocked, MC-go can also unlock the terminal when sending commands.

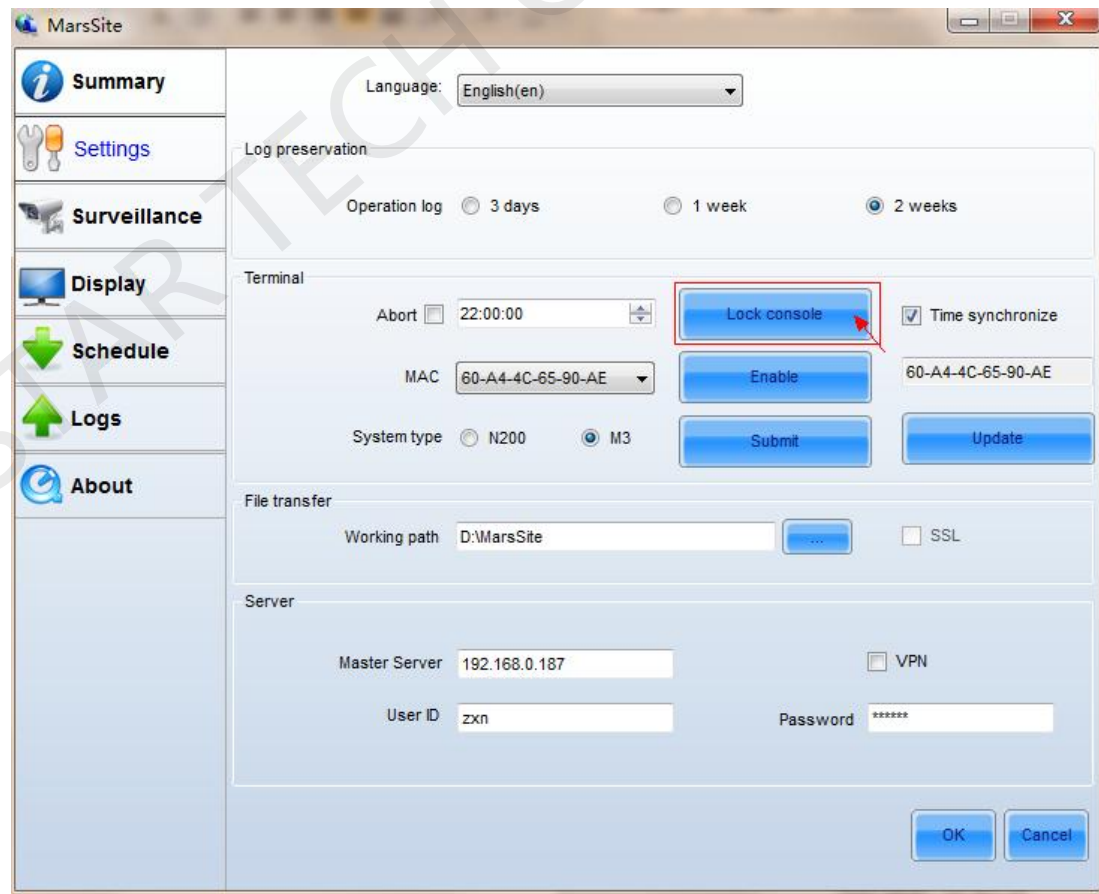
After the terminal is locked, the local keyboard and mouse and U disk function is disabled, mouse and keyboard operation can not be made, and one can not use the U disk, either.

1) Local lockdown

Terminal software -> 【Setting】 page, click on the 【Lock Console】 , you can lock the terminal IPC.

2) Local unlocking

Click on “Esc” to popup a window, and then enter the terminal password and click “OK” . At this time, the terminal is



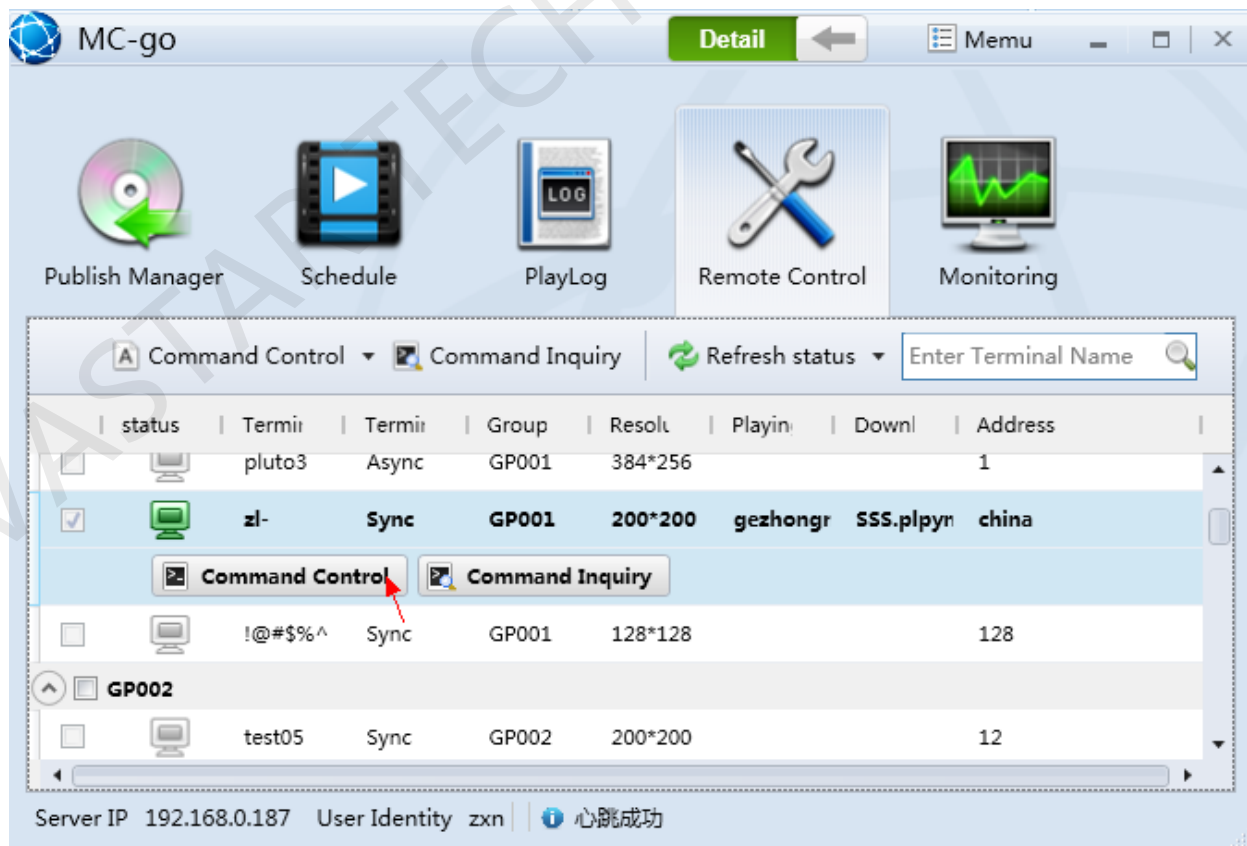
unlocked.

3) Program locking

To unlock the terminal through MC-go, it is needed to use the account with maintenance authority to login MC-go for the corresponding operation.

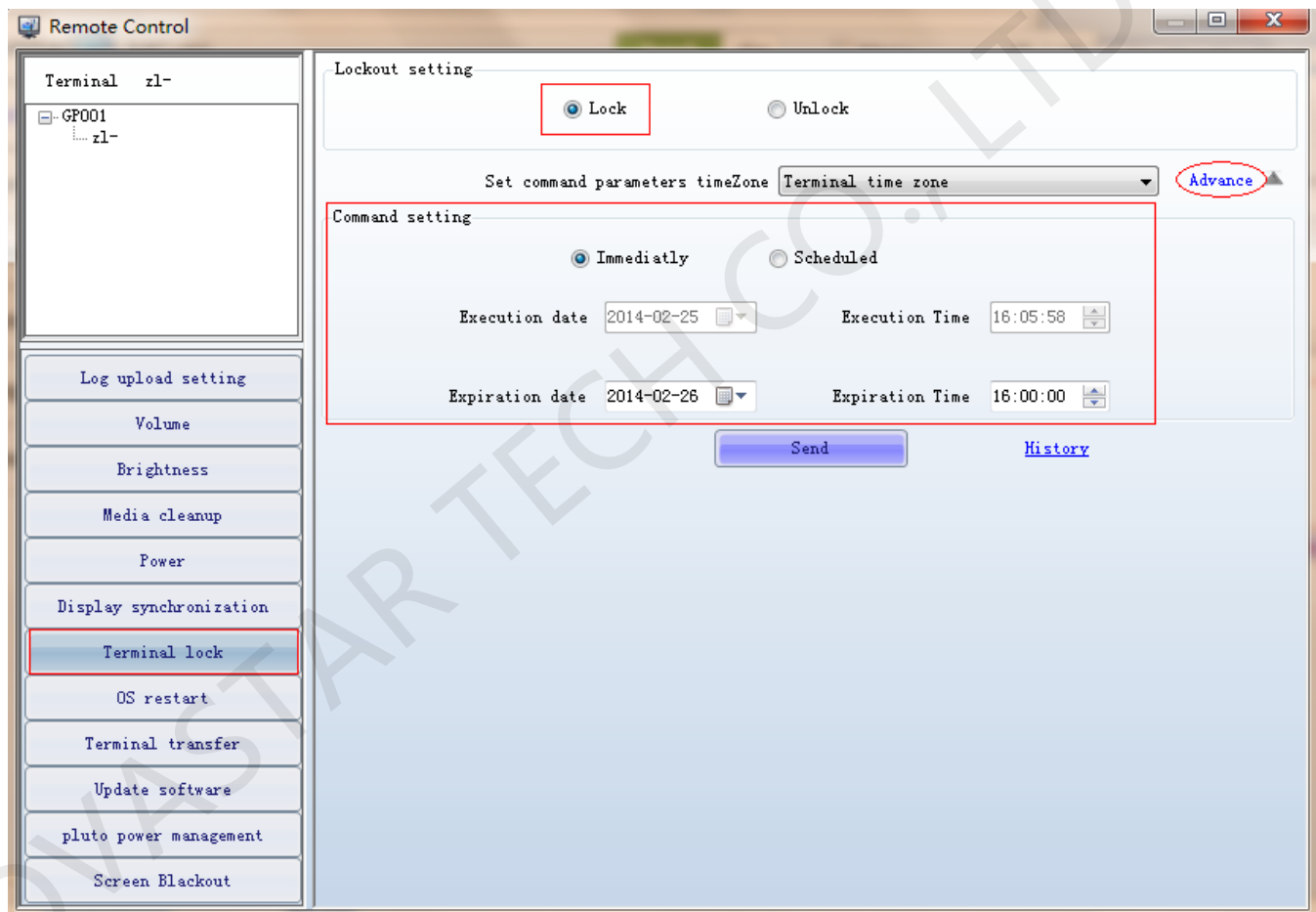
The steps are as follows:

- a) Log in MC-go;
- b) Click "control" button to open terminal control sub-software;
- c) Select the terminal to be locked, and then click on the 【command Control】 to open a command control settings window;
- d) Click " Terminal lock " button on the left to switch to terminal locking setting command window;



- e) Set command parameters: set lock as "lock", and set all the other required parameters.
- f) Click "Send" button. To be effective for the all selected terminals in step
- c), Others are similar.

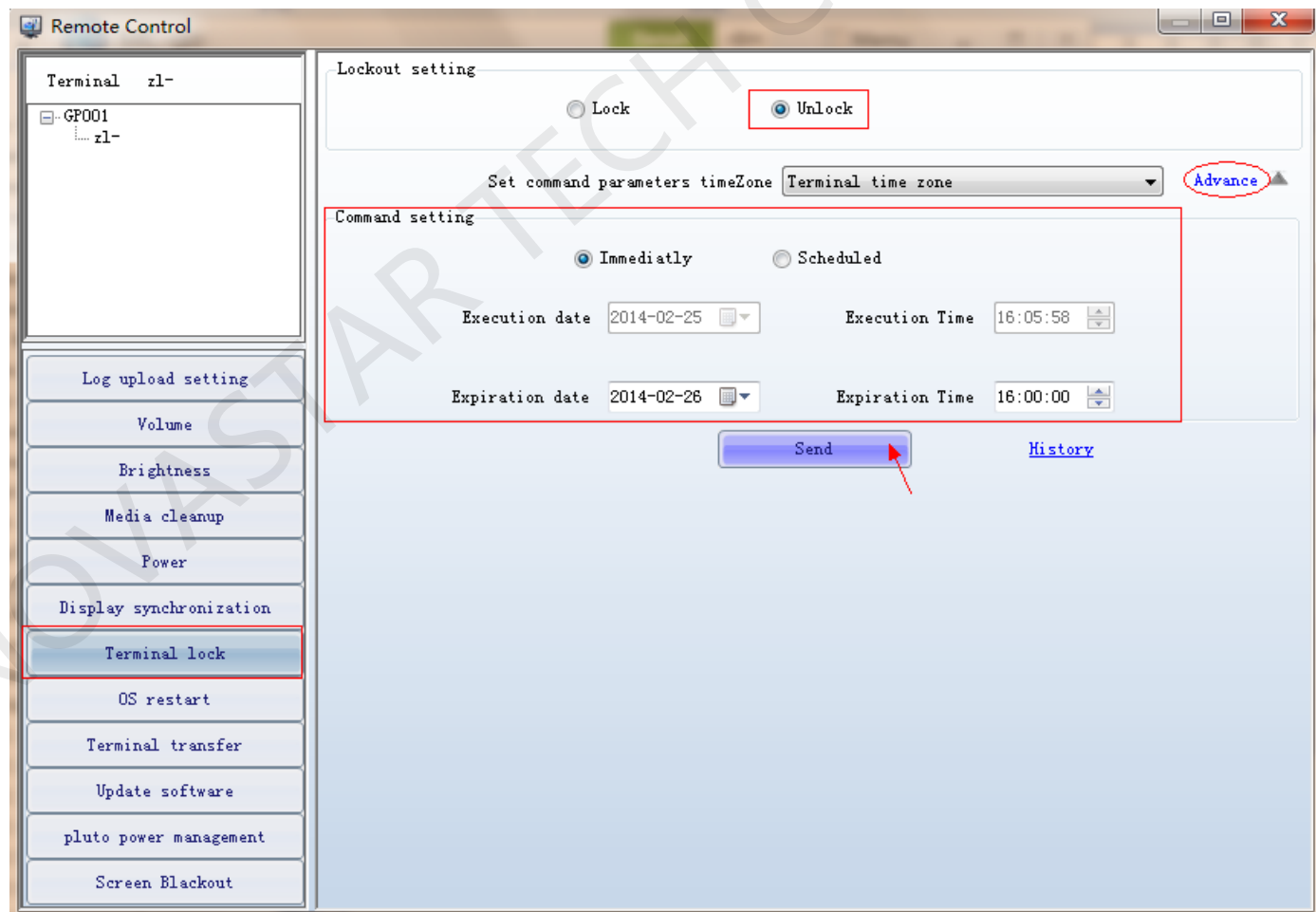
You will see that the terminal is locked down via roughly one or two heartbeat cycle .



4) Program unlocking

Using the MC-go for unlocking is completely similar to the terminal lock setting, it is required to use the account with maintenance authority to login MC-go for conducting the corresponding operation, and the specific operation is as follows:

- Log in the MC-go .
- Click "control" button to open terminal control sub-software;
- Select the terminal to be unlocked, and then click on the 【command Control】 to open a command control settings window;
- Click " Terminal lock " button on the left to switch to terminal



locking setting command window;

- e) Set lock to "unlock", and set the other command parameters.
- f) Click "Send" button. To be effective for the all selected terminals in step c), Others are similar.

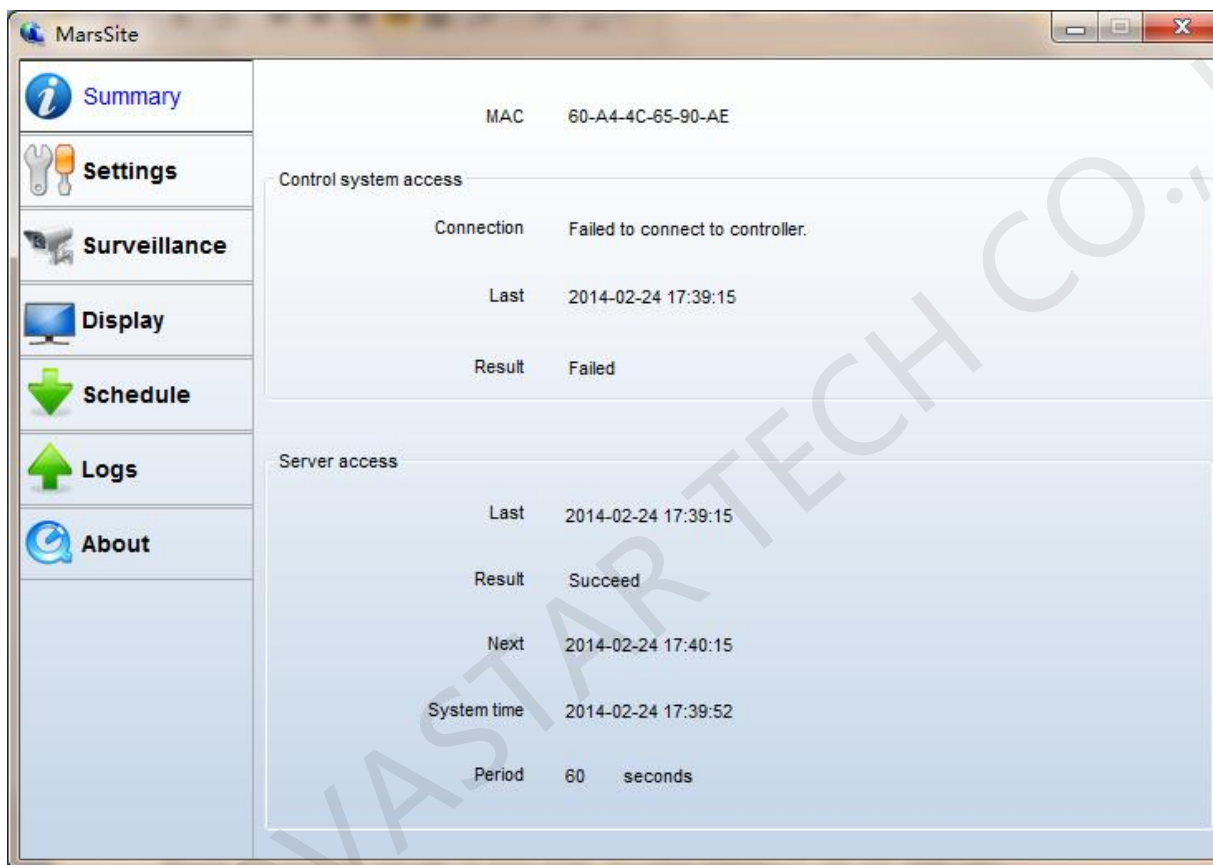
The terminal will be unlocked automatically after about one or two heartbeat cycles.

To use the MC-go for locking and unlocking, make sure the MC-go can normally communicate with the server, and server is locked with terminal.

4.1.5 Other Options

4.1.5.1 Terminal information

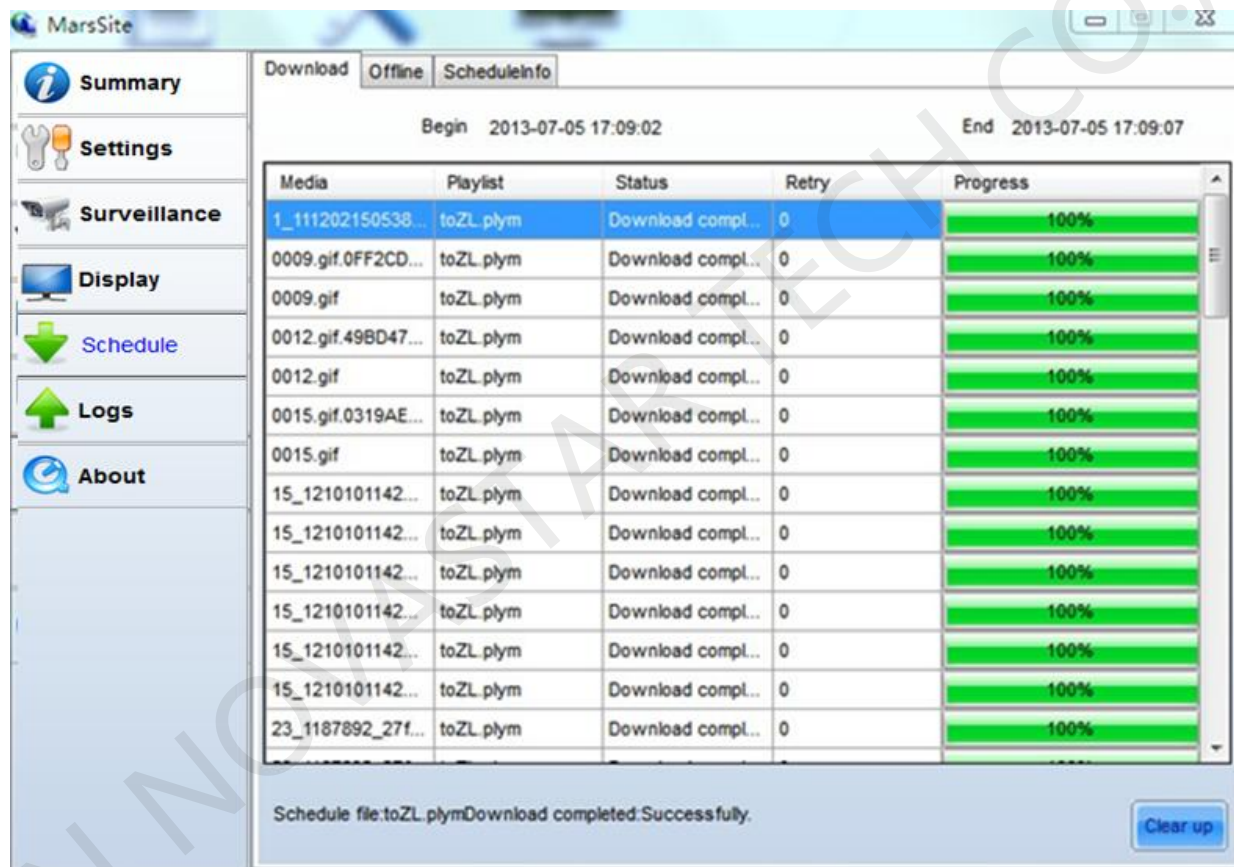
Terminal information mainly displays the current status information of the terminal such as MAC address, and the connection state of the controller, the reading of controller result, the heartbeat cycle, last heartbeat time and the results, as shown below.



4.1.5.2 Schedule

1) Download Schedule

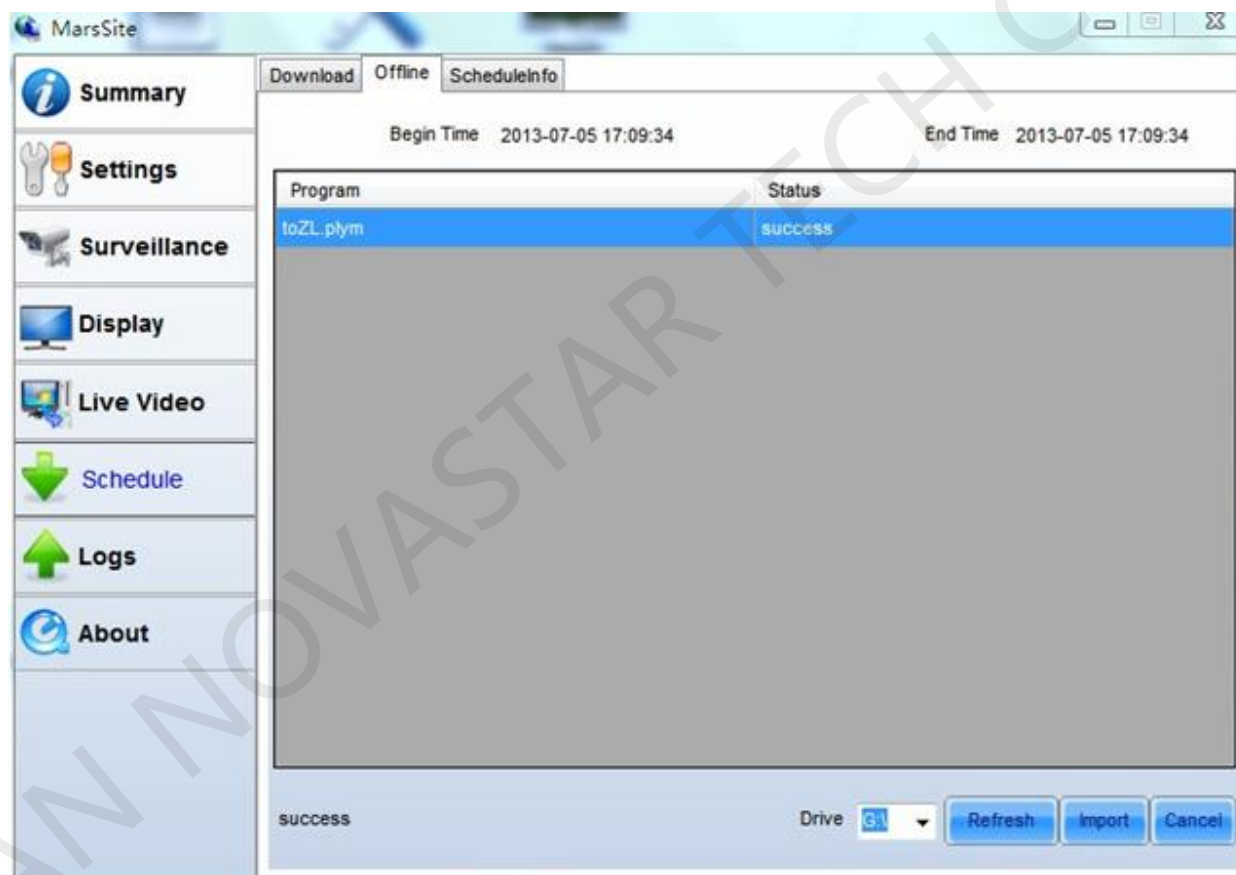
Nova Cloud terminal downloads schedule from the server. The terminal begins to download after receiving the command and schedule downloading, and can view the progress and results of downloading as shown in the figure below:



2) Offline Schedule

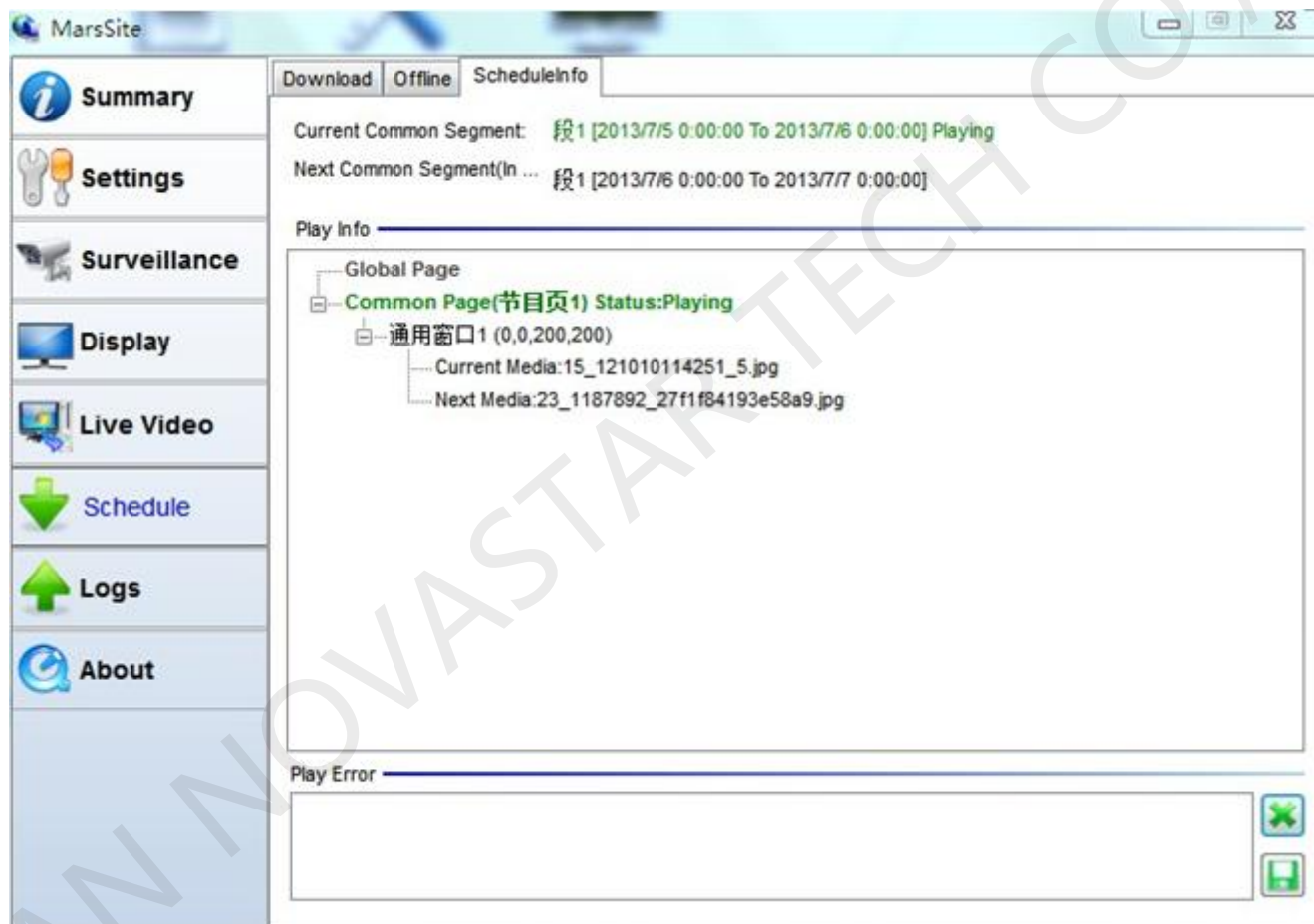
If the play schedule is locally saved, it is available to import manually as per the following method:

Refresh the drive letter, select the drive letter for storing offline play schedule, and then click [import], and in this way, the software shall automatically import the offline schedule corresponding to the terminal and display it in the list, as shown in the following figure.



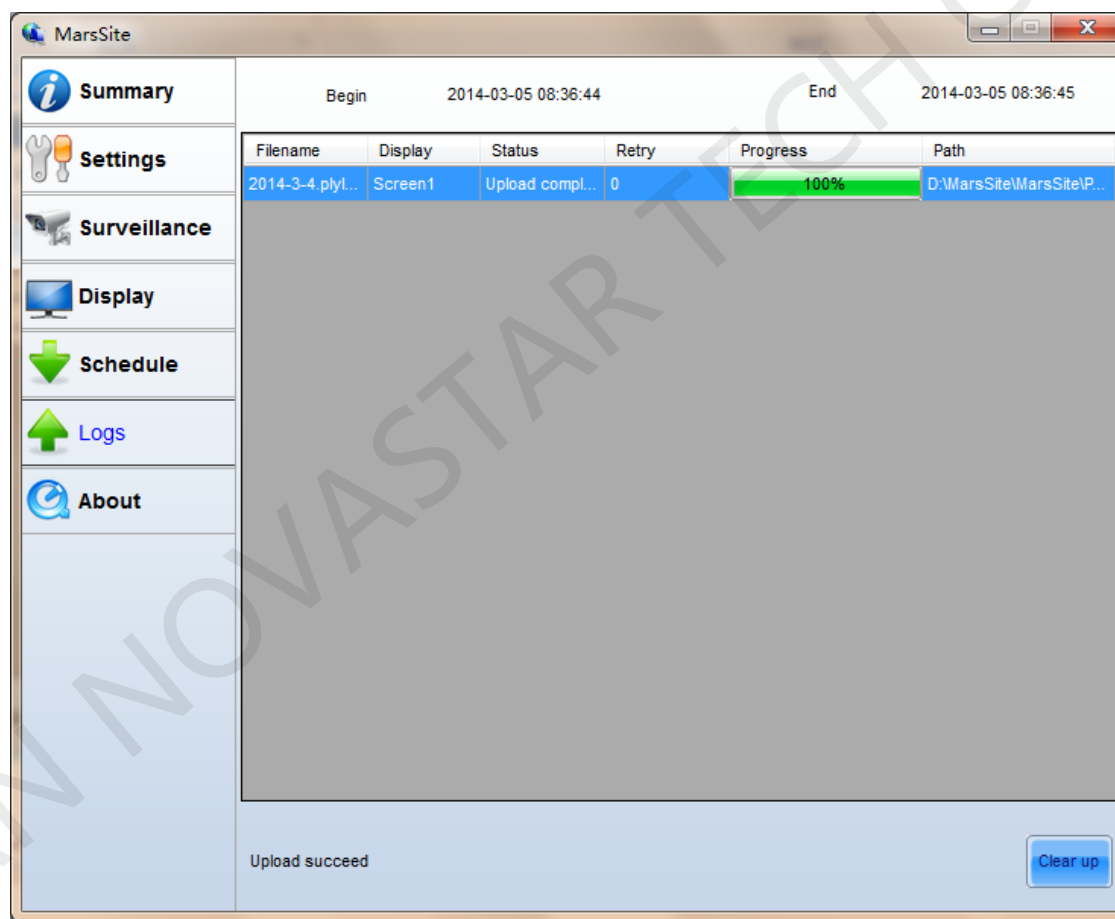
3) schedule information

Check the real-time playback information and faults.



4.1.5.3 Log upload state

The MC-go commands terminals to upload logs to be played. Terminals can display the progress and results in the uploading of current logs to server. See the figure below:

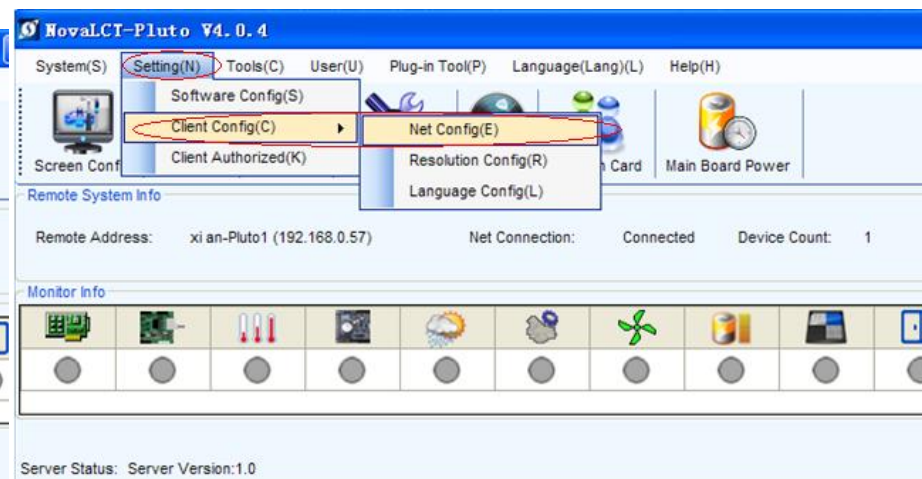
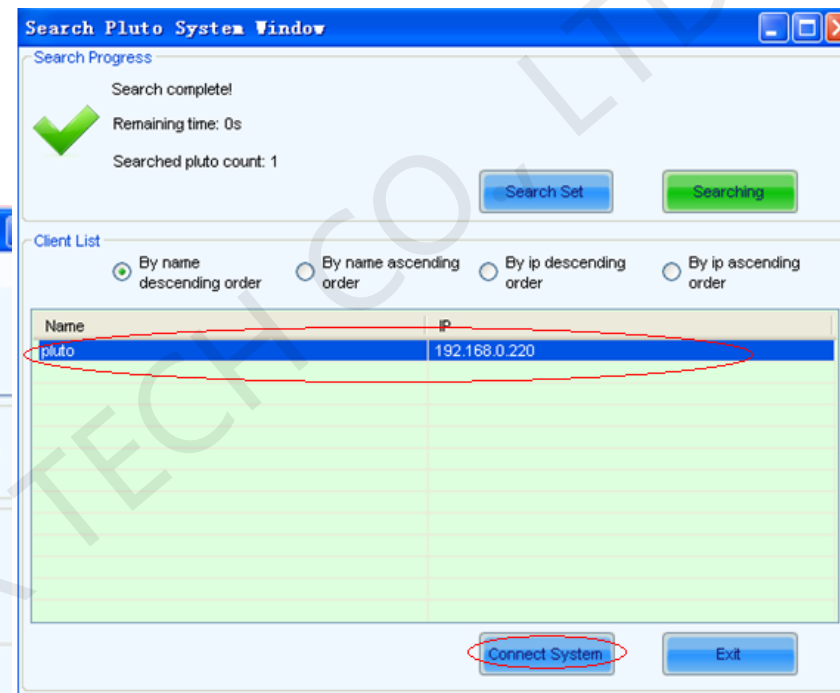
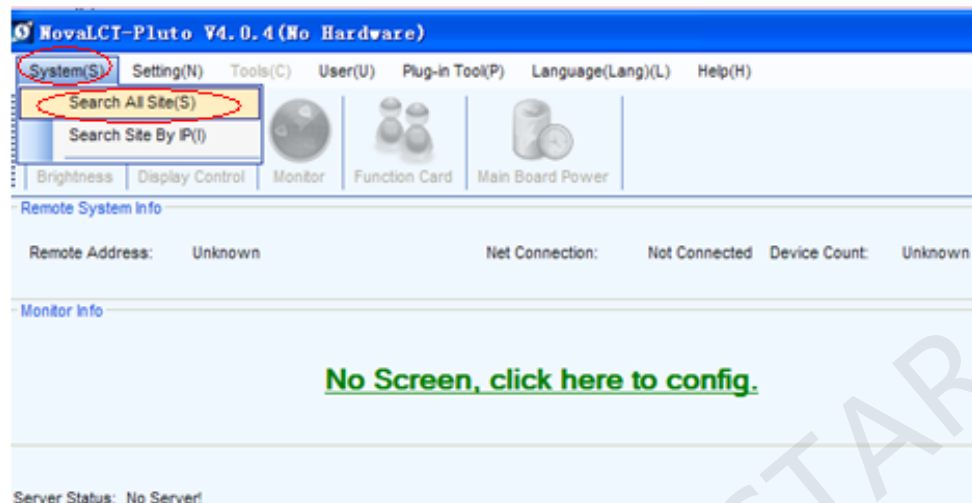


4.2 Asynchronous terminal setting

Run NovaPluto-LCT on the management center computer, and set up network parameters of asynchronous terminal according to the following steps.

Explanation of key parameters:

- 1) Select management platform "MC-go";
- 2) Fill out the master server IP (see shipping parameters);
- 3) Fill out your own user ID (see shipping parameters);
- 4) Fill out the terminal password (password set up while registering terminal).



☒ Configure server network parameters to connect in Wan

The Server Parameters

Platform Select: MC-go

Server Addr: 116 . 255 . 223 . 115 ☐ VPN

User ID: WEBSZ


Client Password: *****

Rereading Send Exit

5 Client operation(MC-go)

The operation of the program includes creation, publishing, log management, picture monitoring, system monitoring and terminal control.

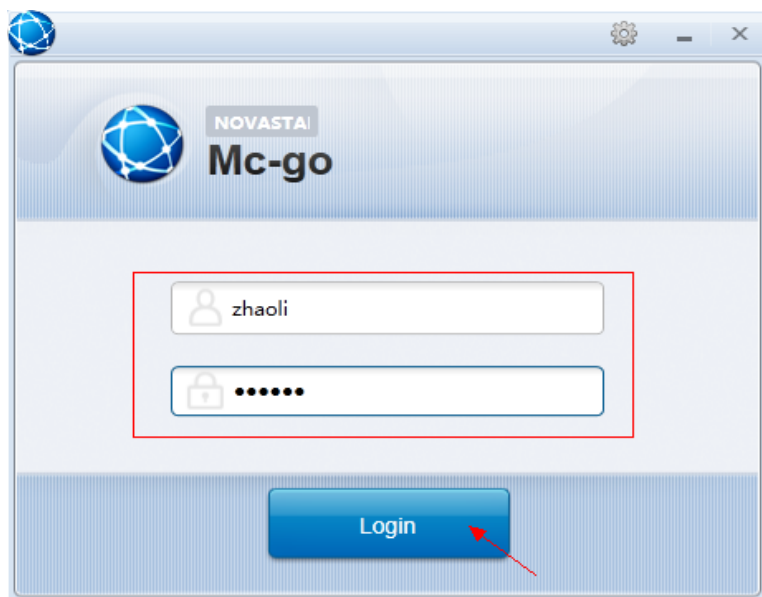
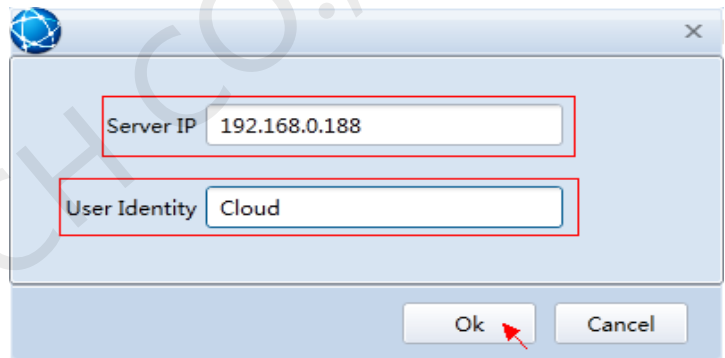
5.1 Login MC-go

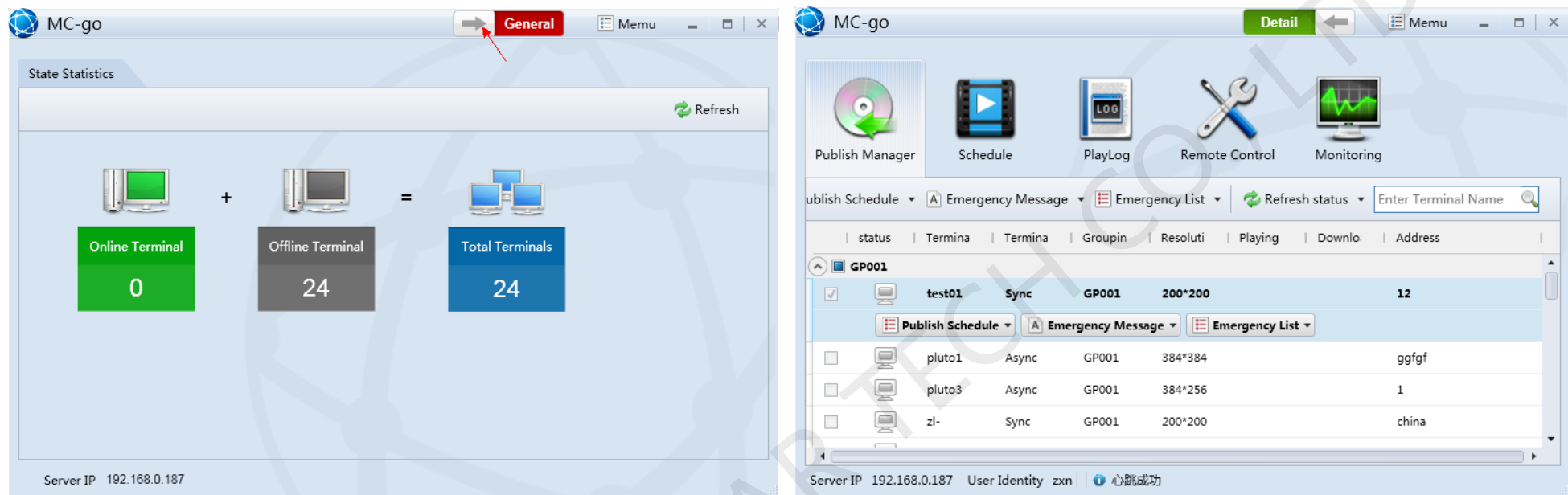
- 1) Run management center software, click on the button  in the login interface, make sure if the server IP is correct, and if it is correct, click [OK].
- 2) Enter the registered MC-go account and corresponding password, click [Login]

to enter the home page of management center, and click



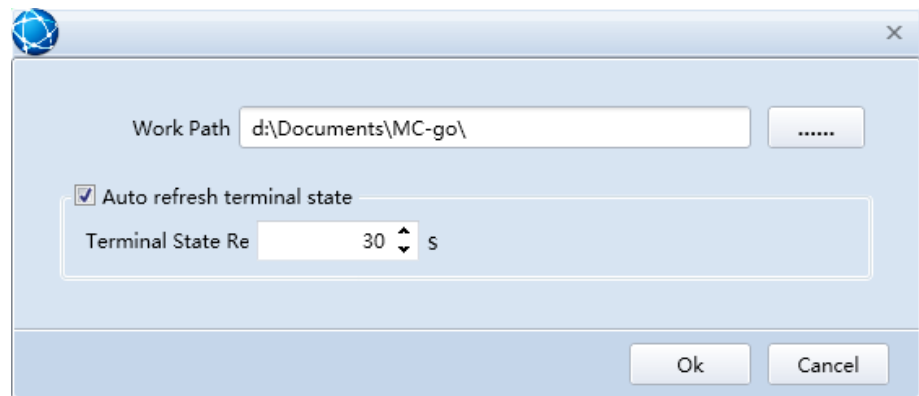
to enter the operation interface of management center.





5.2 User configuration

The work path of schedule is stored at the Program, and schedule files and media files are all kept in this catalogue. Do not use default catalogue, unless only one manage center computer are running. It is required that one computer is arranged and a shared catalogue with sufficient memory



capacity at LAN where the MC-go is located at based on unified arrangement to save the media and schedule. All of the MC-go should make the schedule storage path point to this directory to achieve collaboration.

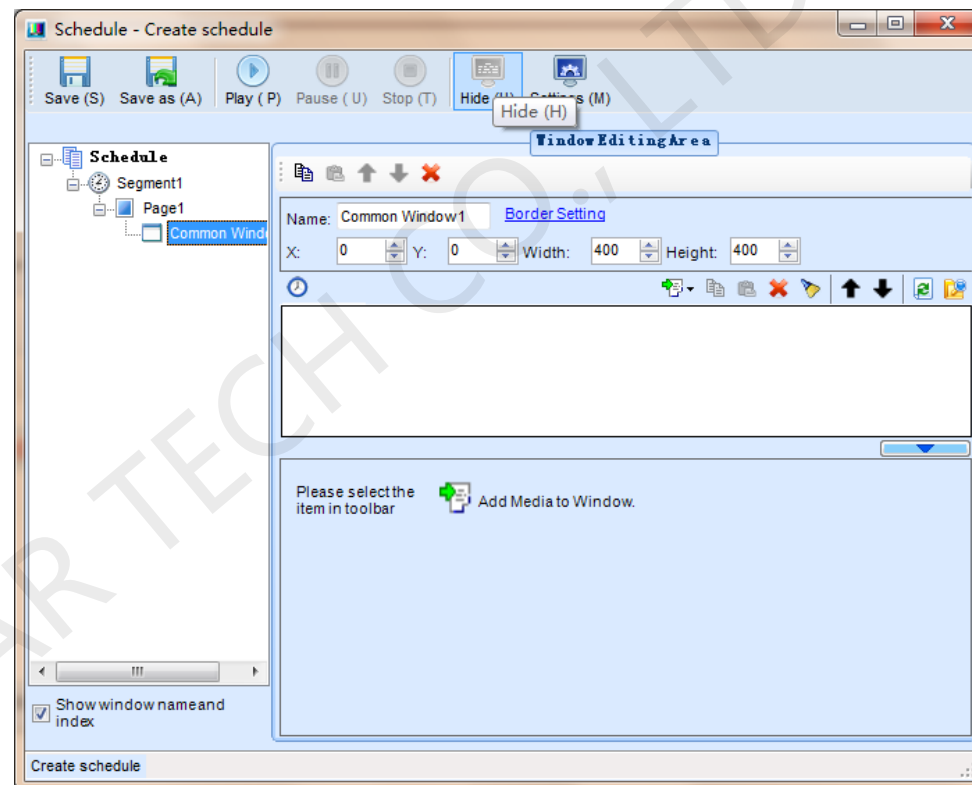
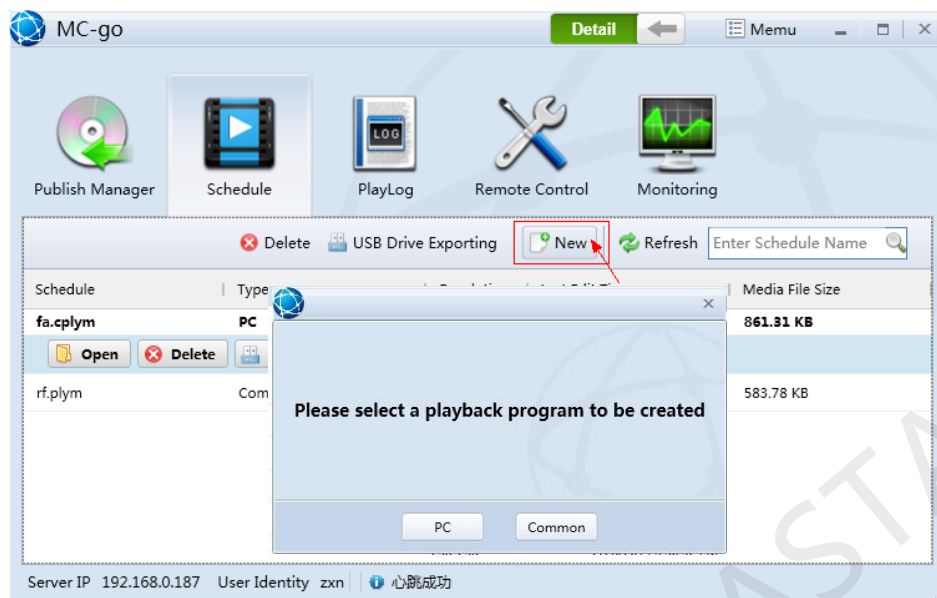
As shown in the picture on the right, if you tick “Auto refresh terminal state”, MC-go shall refresh terminal state according to the set frequency.

5.3 Publish

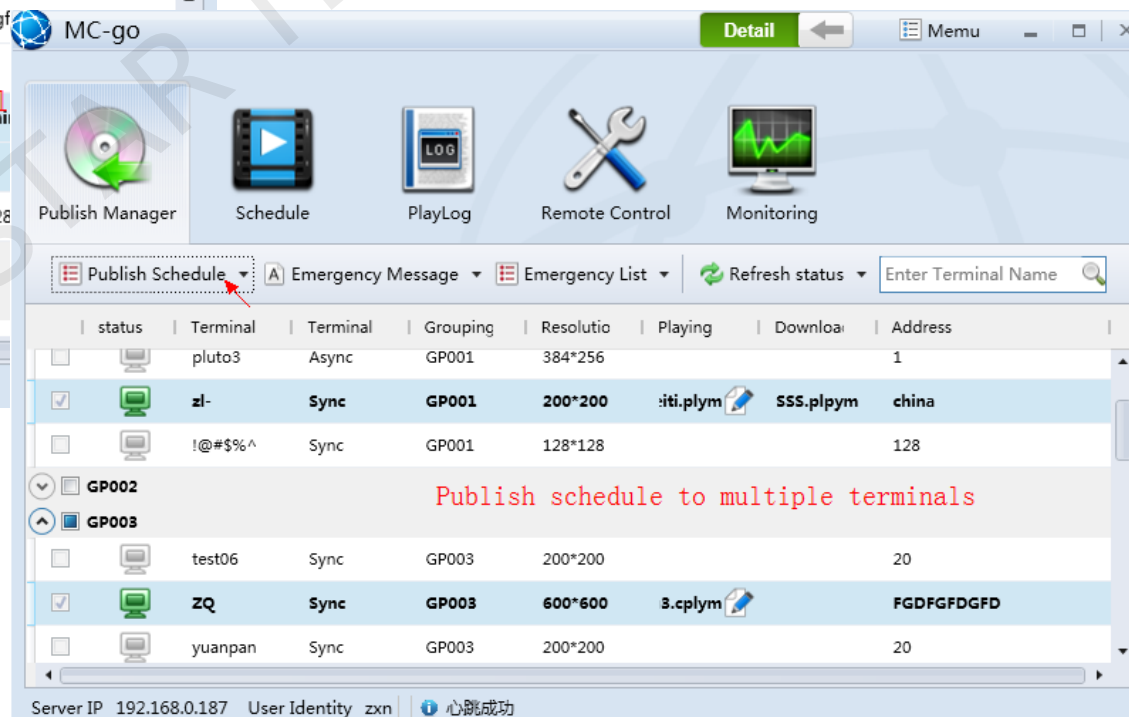
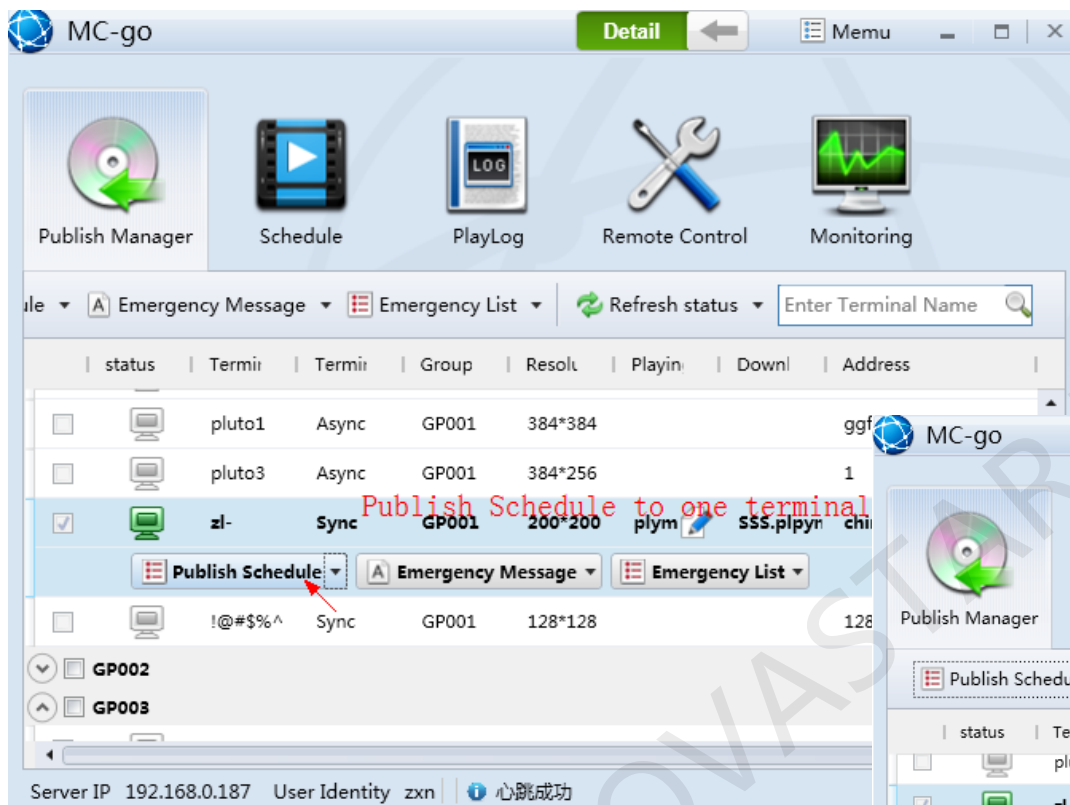
5.3.1 Schedule

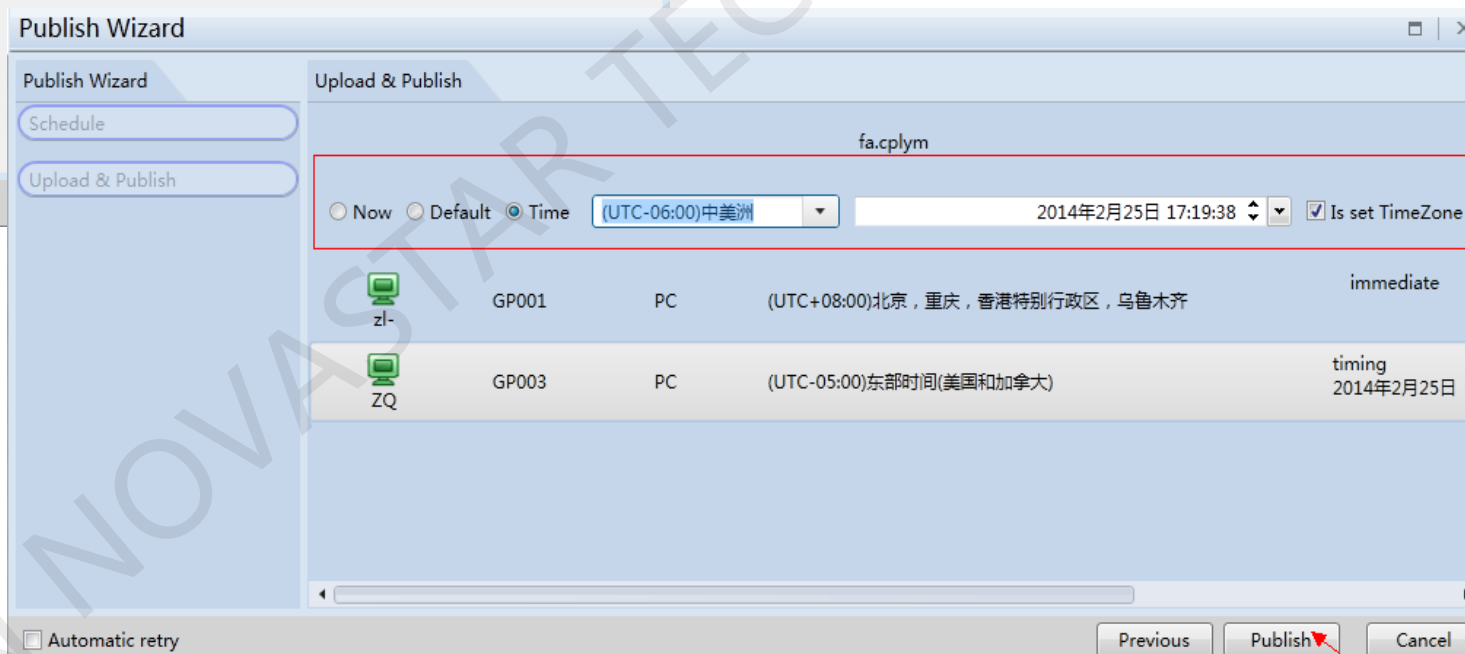
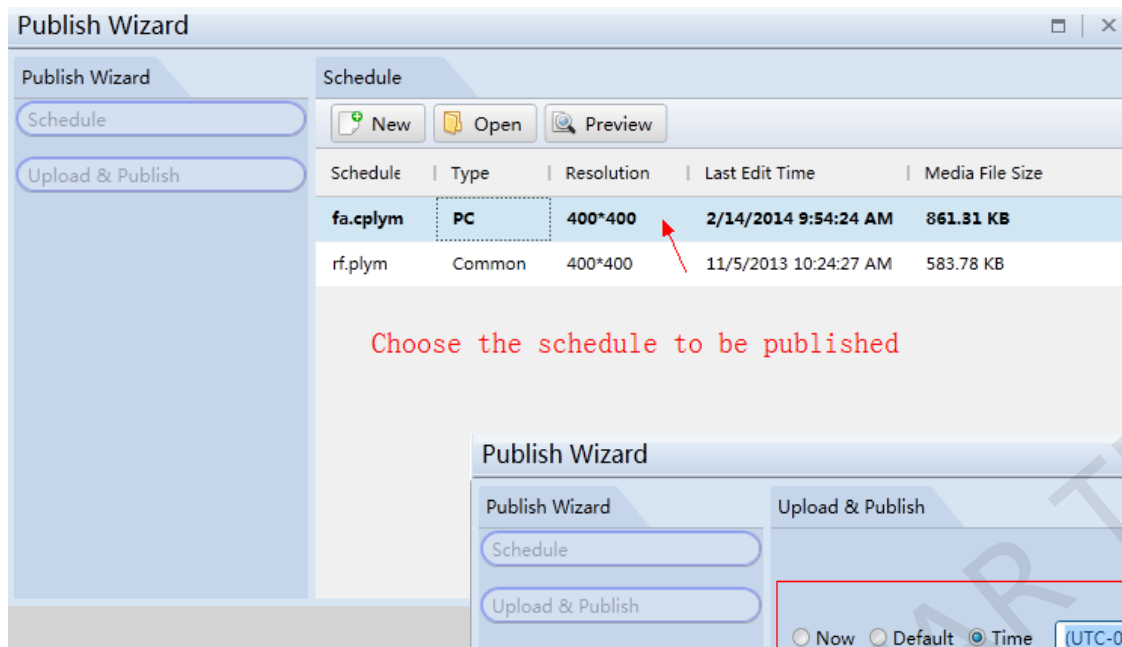
The making of Nova Cloud MC-go lists are similar to Novastudio2012, please refer to

NovaStudio2012 user manual (/Nova Cloud/docs/NovaStudio2012 software user manual) in the disc for details.



5.3.2 Publish Manager





Publish Wizard

Publish Wizard

Schedule

Upload & Publish

fa.cplym

Inquiry Publish

☐ Now ☐ Default ☒ Time (UTC-06:00)中美洲 2014年2月25日 17:19:38 ☒ Is set TimeZone

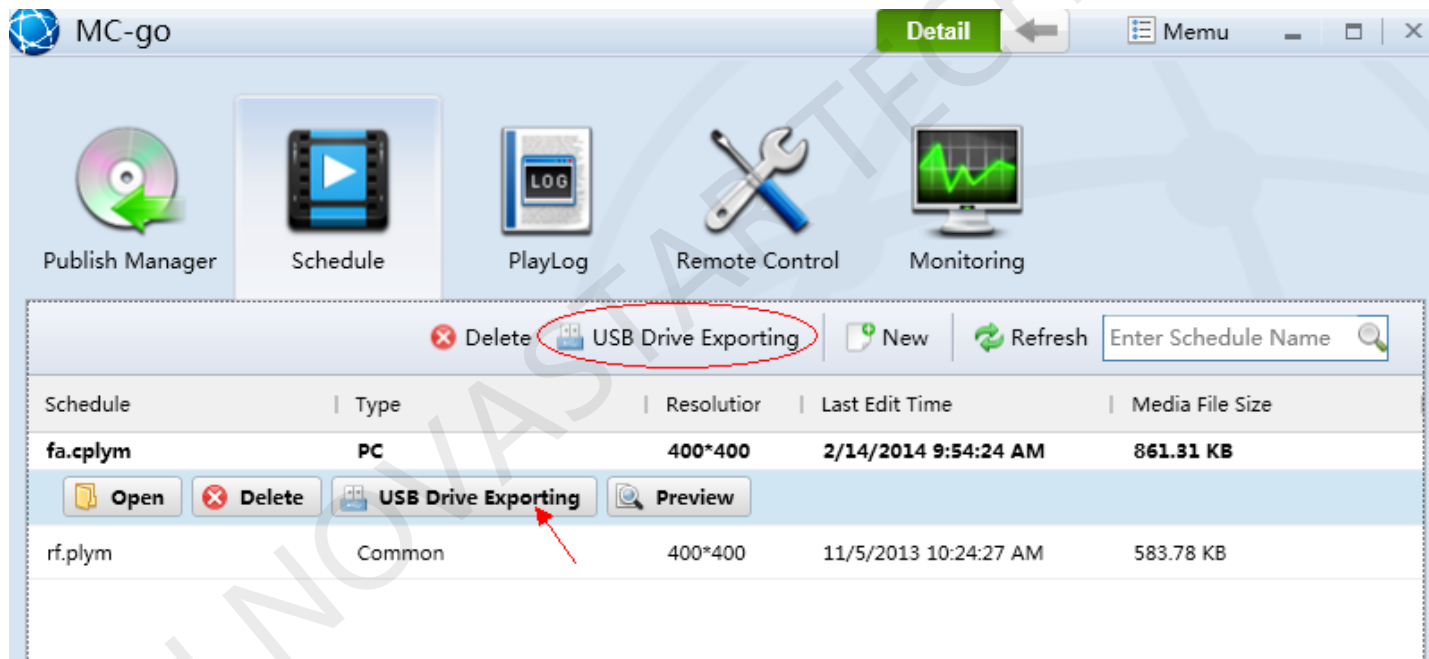
zl-	GP001	PC	(UTC+08:00)北京, 重庆, 香港特别行政区, 乌鲁木齐	immediate	100% (2/2)
ZQ	GP003	PC	(UTC-05:00)东部时间(美国和加拿大)	timing 2014年2月25日	100% (2/2)

☐ Automatic retry

Previous Finish Cancel

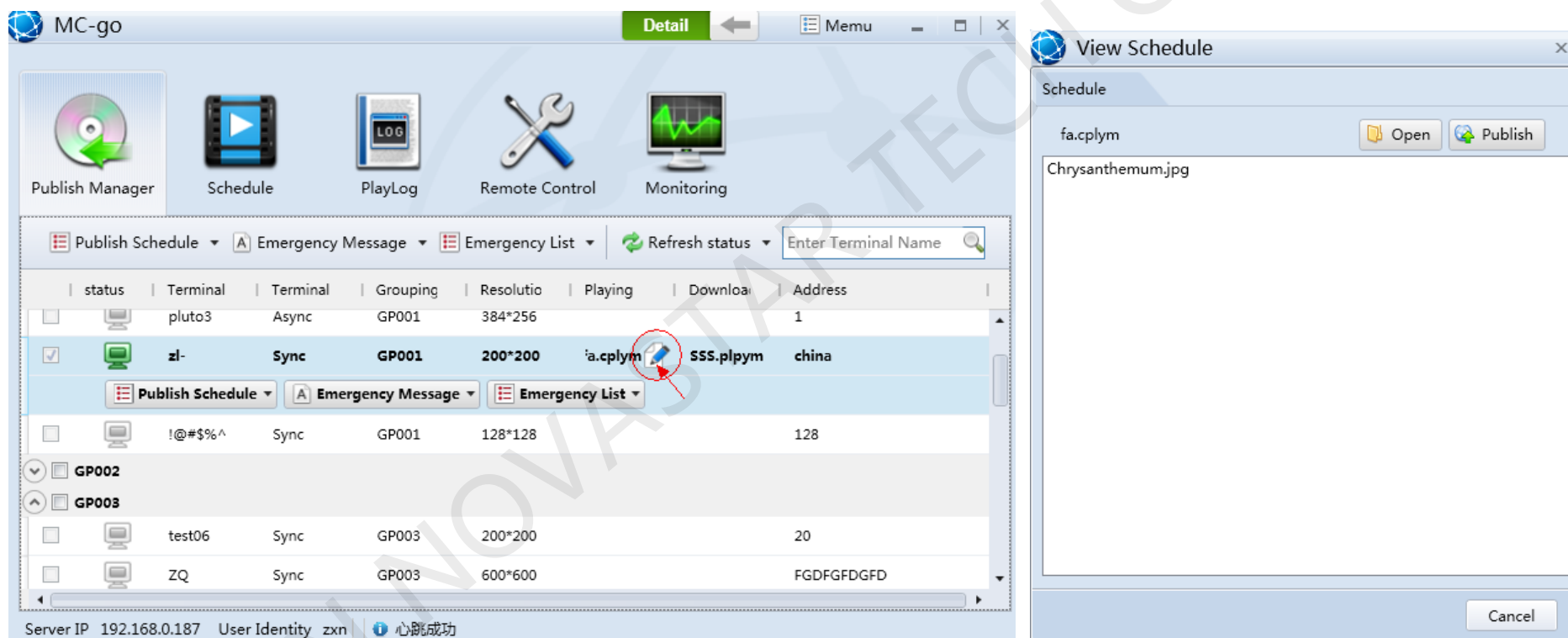
5.3.3 USB Dive Exporting

The scheduling export function is mainly used to export the scheduling to the mobile device when the terminal and the server cannot normally communicate (such as network interruption, etc.), and then, with the terminal "scheduling offline import" function, it is allowed to import the scheduling in the mobile equipment to ensure normal business operation of customers.



5.3.4 Readback and edit

Readback the playing program of remote display. and edit the program to meet new business requirement, this approach will provide users save even more time.



5.3.5 Emergency play

With the emergency inserted play function, it is available to insert a emergency list or Emergency Message, and once the release succeeds, the contents inserted shall be played in the existing playing task instantly or at a fixed time.

The image displays two screenshots of the MC-go software interface, illustrating the 'Emergency Message' function.

Left Screenshot: The 'Emergency Message' button is highlighted. The table below shows the current state of the system:

status	Terminal	Terminal	Grouping	Resolutio	Playing	Download
	pluto3	Async	GP001	384*256		
<input checked="" type="checkbox"/>	zl-	Sync	GP001	200*200	'a.cplym	SSS.plpyr
	!@#\$\$%^	Sync	GP001	128*128		

GP002, GP003, GP004 are listed in the left sidebar. A red arrow points to the 'Emergency Message' button. A red text overlay reads: "Publish emergency message to one terminal".

Right Screenshot: The 'Emergency Message' button is highlighted. The table below shows the current state of the system:

status	Terminal	Terminal	Grouping	Resolutio	Playing	Download	Address
	pluto1	Async	GP001	384*384			ggfgf
<input checked="" type="checkbox"/>	pluto3	Async	GP001	384*256			1
<input checked="" type="checkbox"/>	zl-	Sync	GP001	200*200	'a.cplym		china
	!@#\$\$%^	Sync	GP001	128*128			128

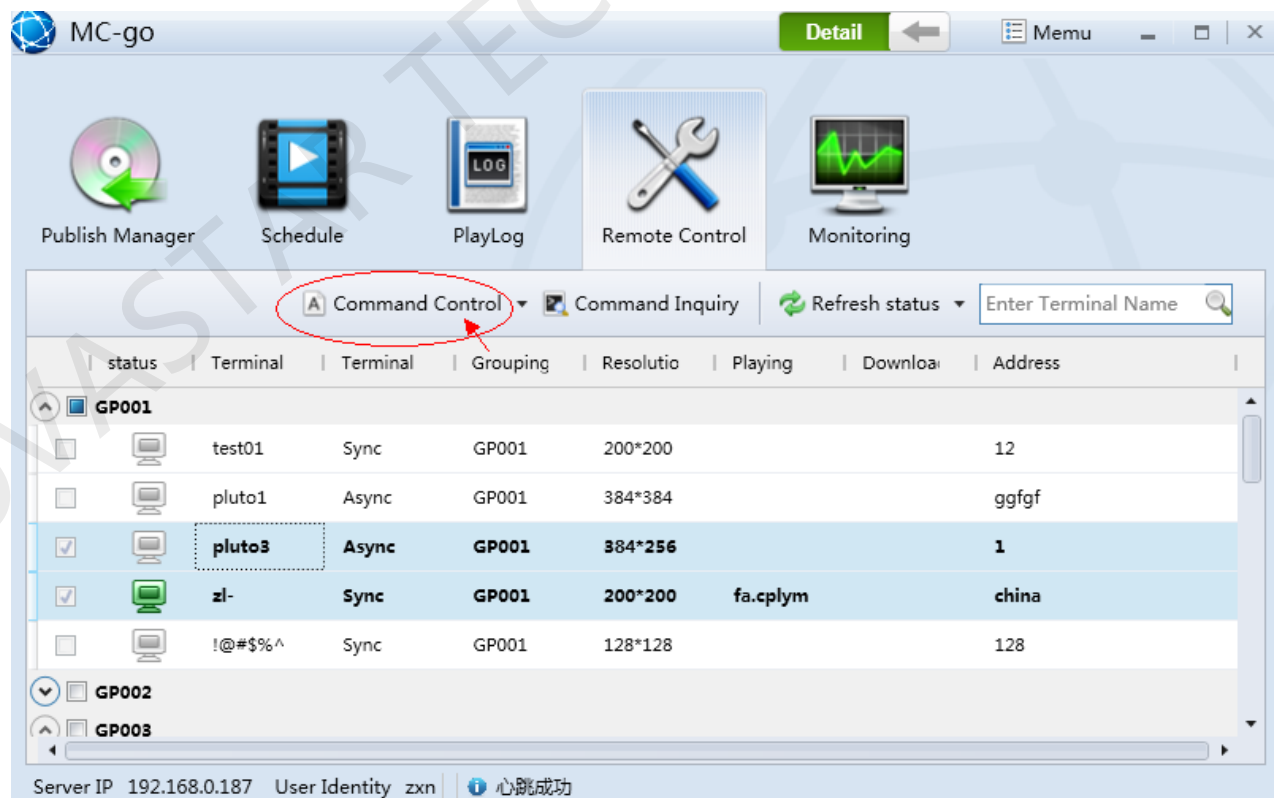
GP002, GP003 are listed in the left sidebar. A red arrow points to the 'Emergency Message' button. A red text overlay reads: "Publish emergency message to multiple terminals".

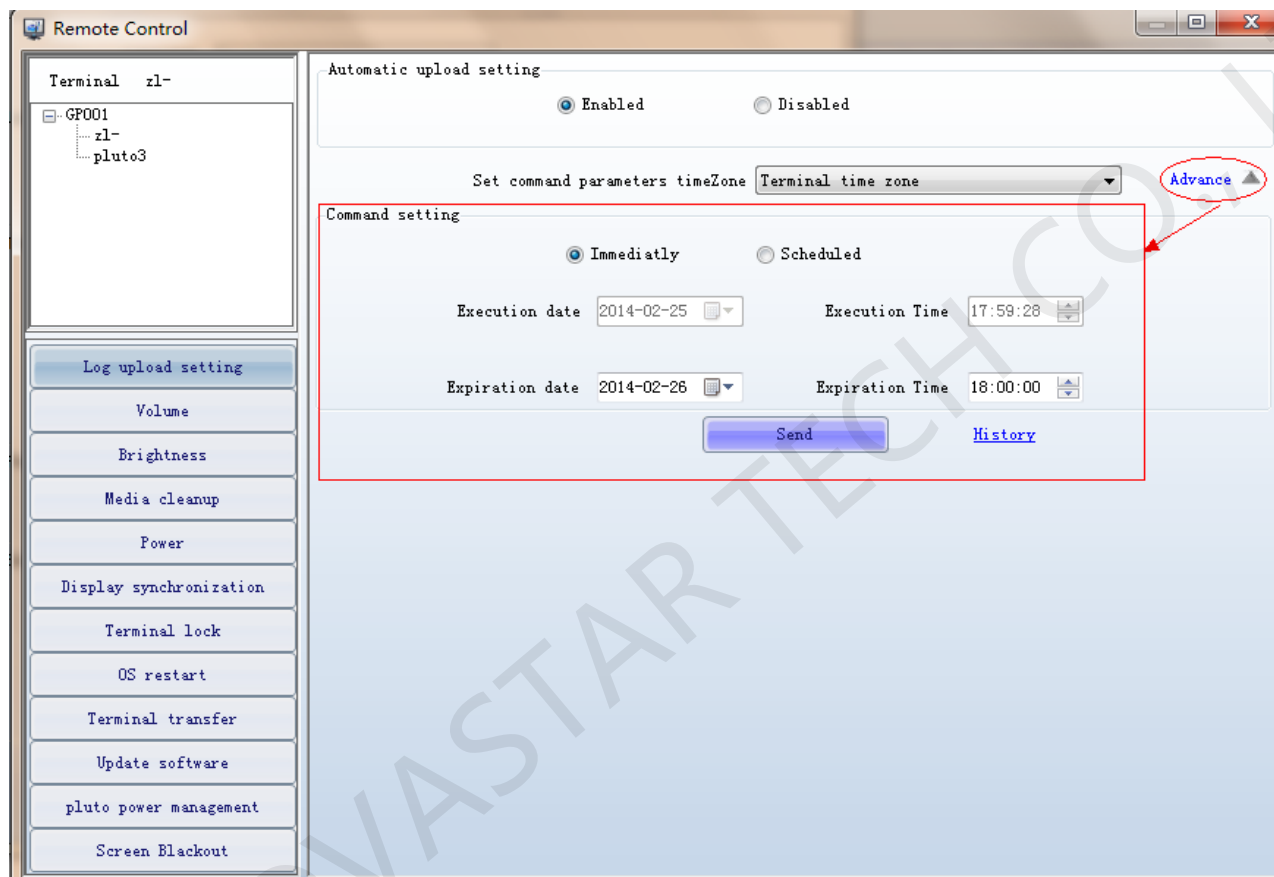
5.4 Remote control

Nova Cloud Remote control commands includes command function (function name) and setting.

Nova Cloud supports a series of terminal control functions, and proceeds to increase as required by customers.

The execution of Nova Cloud commands is divided into three ways as immediate execution, timed execution. Immediate execution means that once the command is received by terminal, execute the command at once; timed execution means that the command shall be locally cached after it is received by terminal, and after specified time point arrives, the expire date of the commands will be obsoleted and never be executed again.





Selected command type, the command properties window appears. There are different parameters for different commands, yet the command attributes are the same.

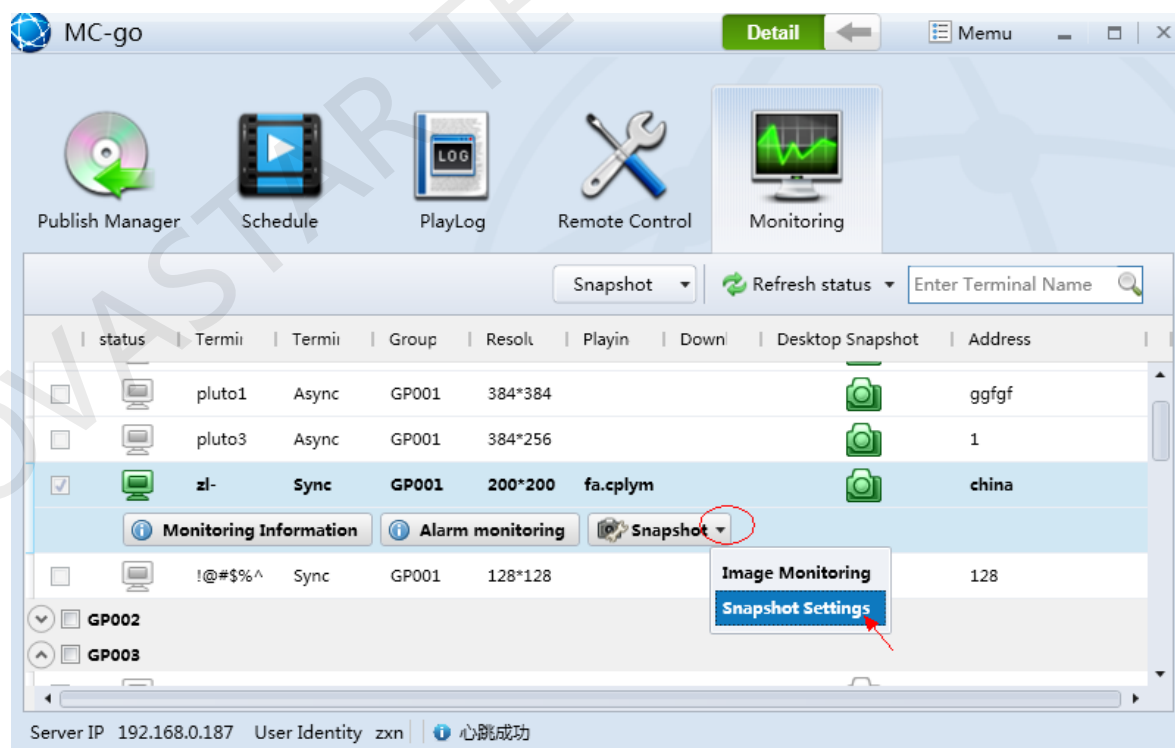
5.5 Monitoring

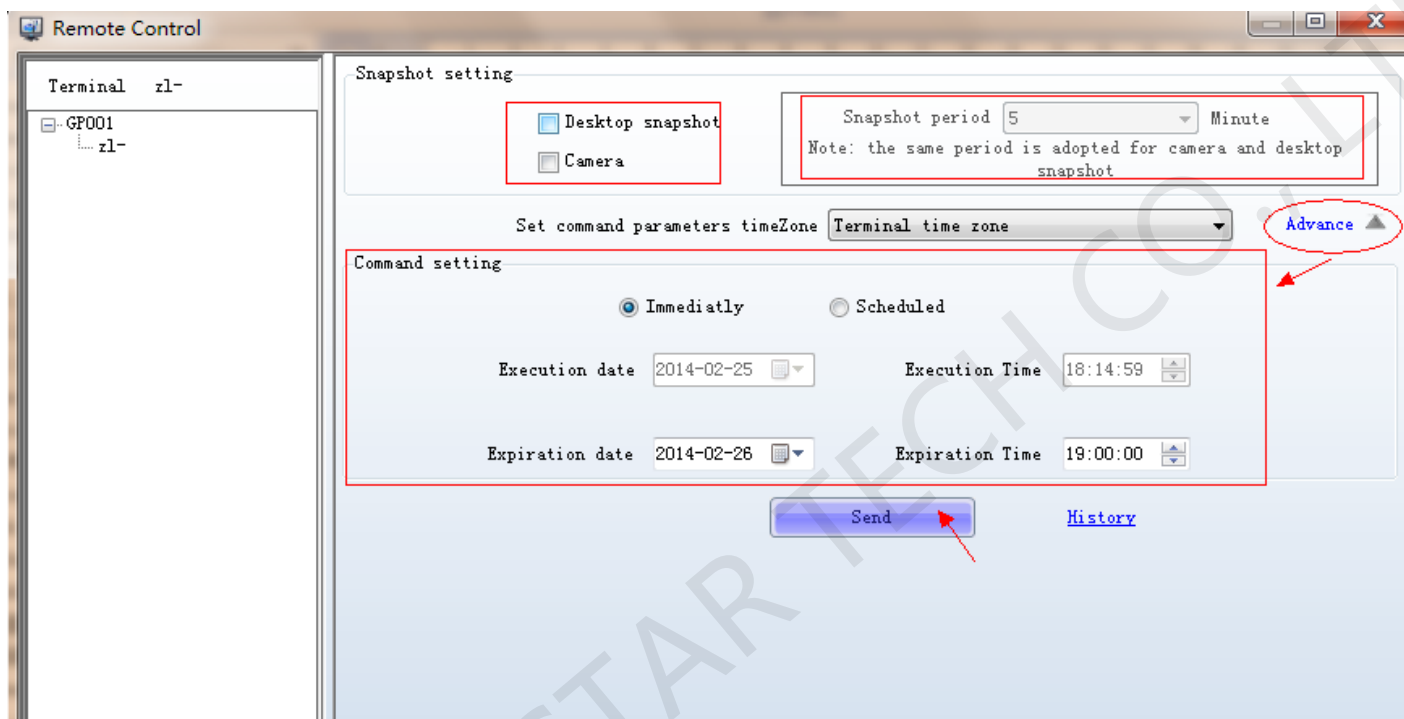
5.5.1 Picture monitoring

Nova Cloud picture monitor obtains the on-site pictures of terminal display in the way of regularly printing screen and making timed snapshot by network camera(Synchronization system support), you can check out the current and history pictures of terminal displays in management center and have them under control.

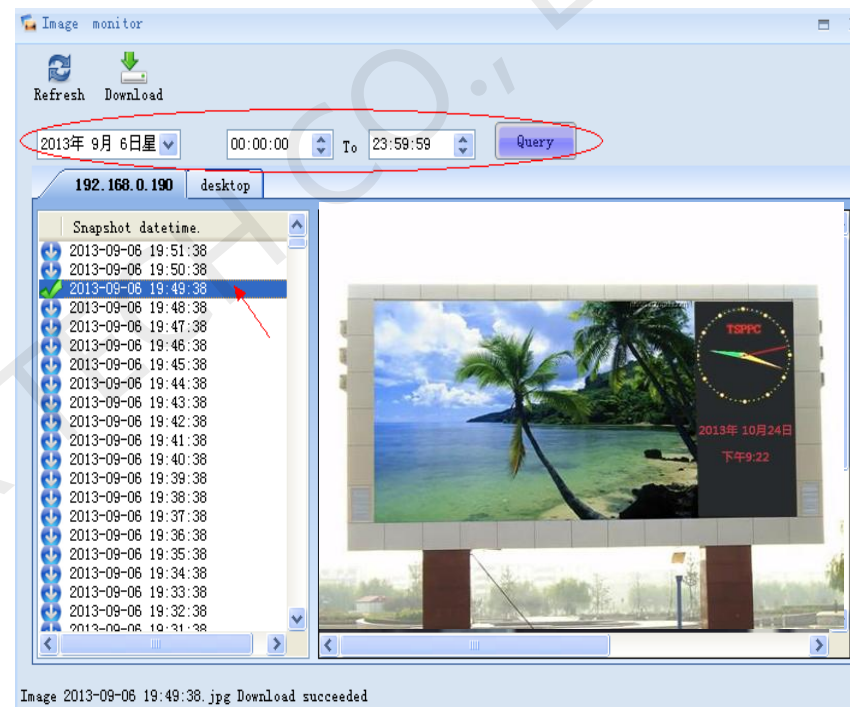
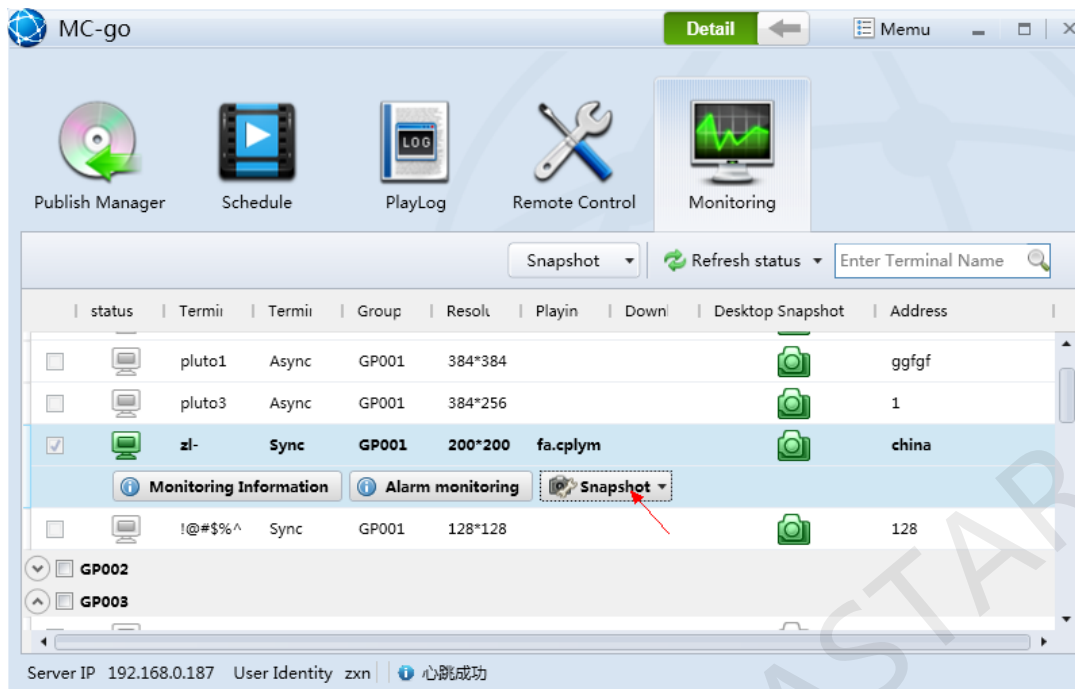
1) Snapshot settings

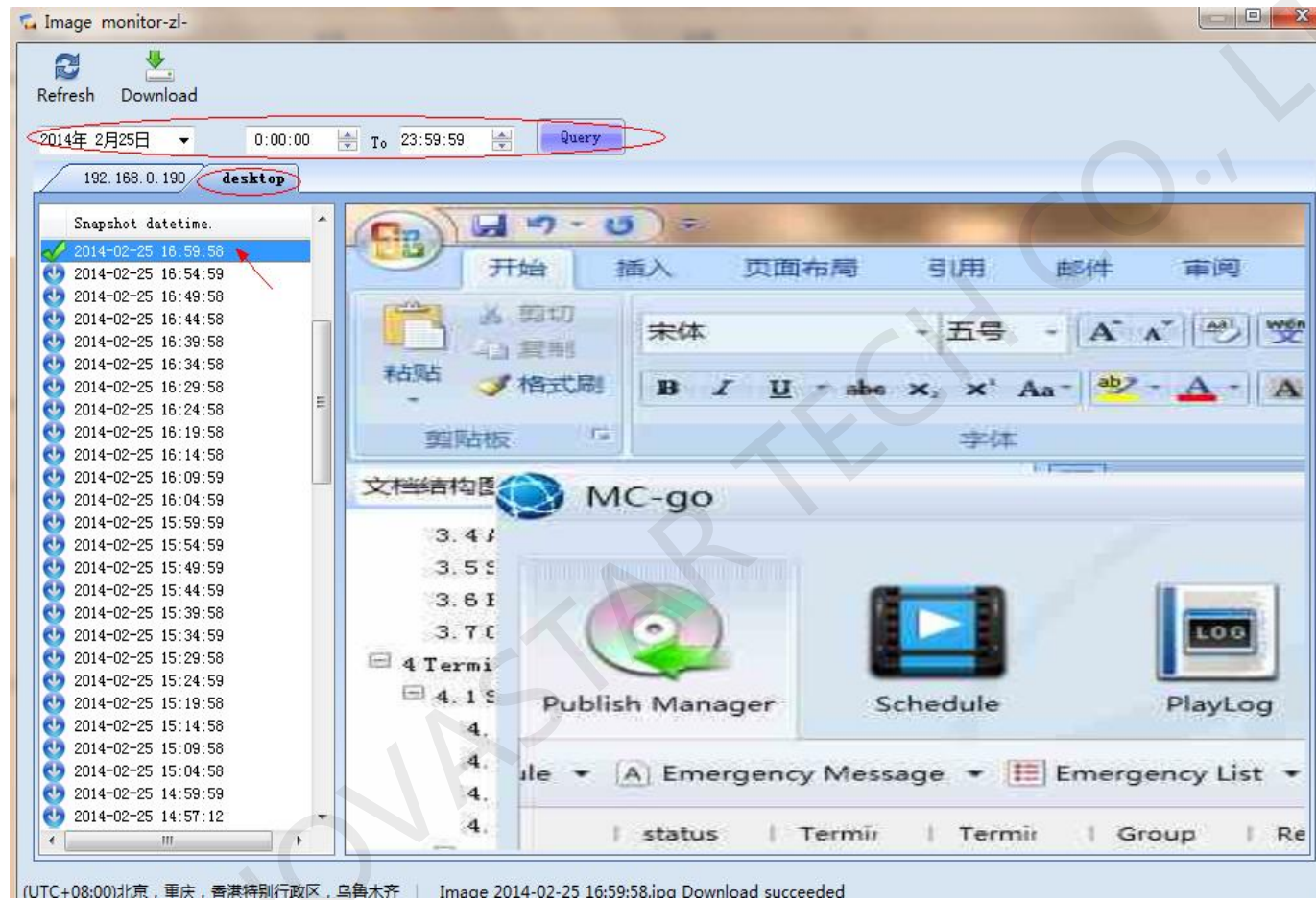
As shown below:





2) view images

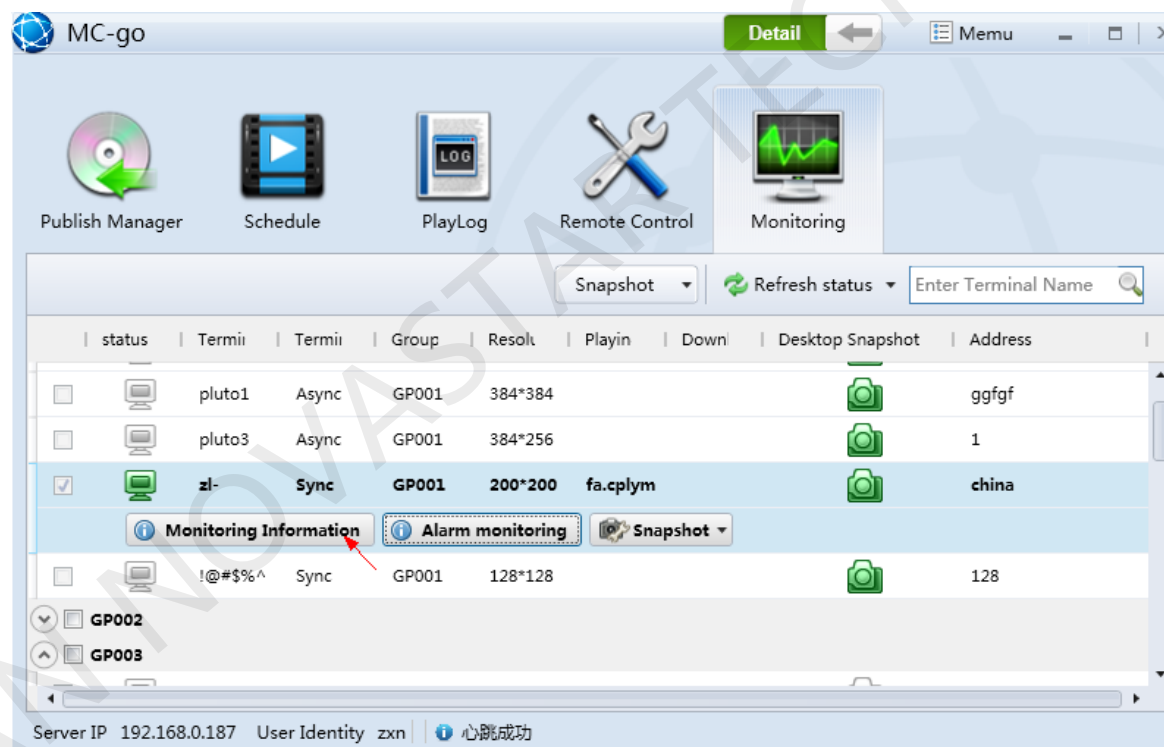


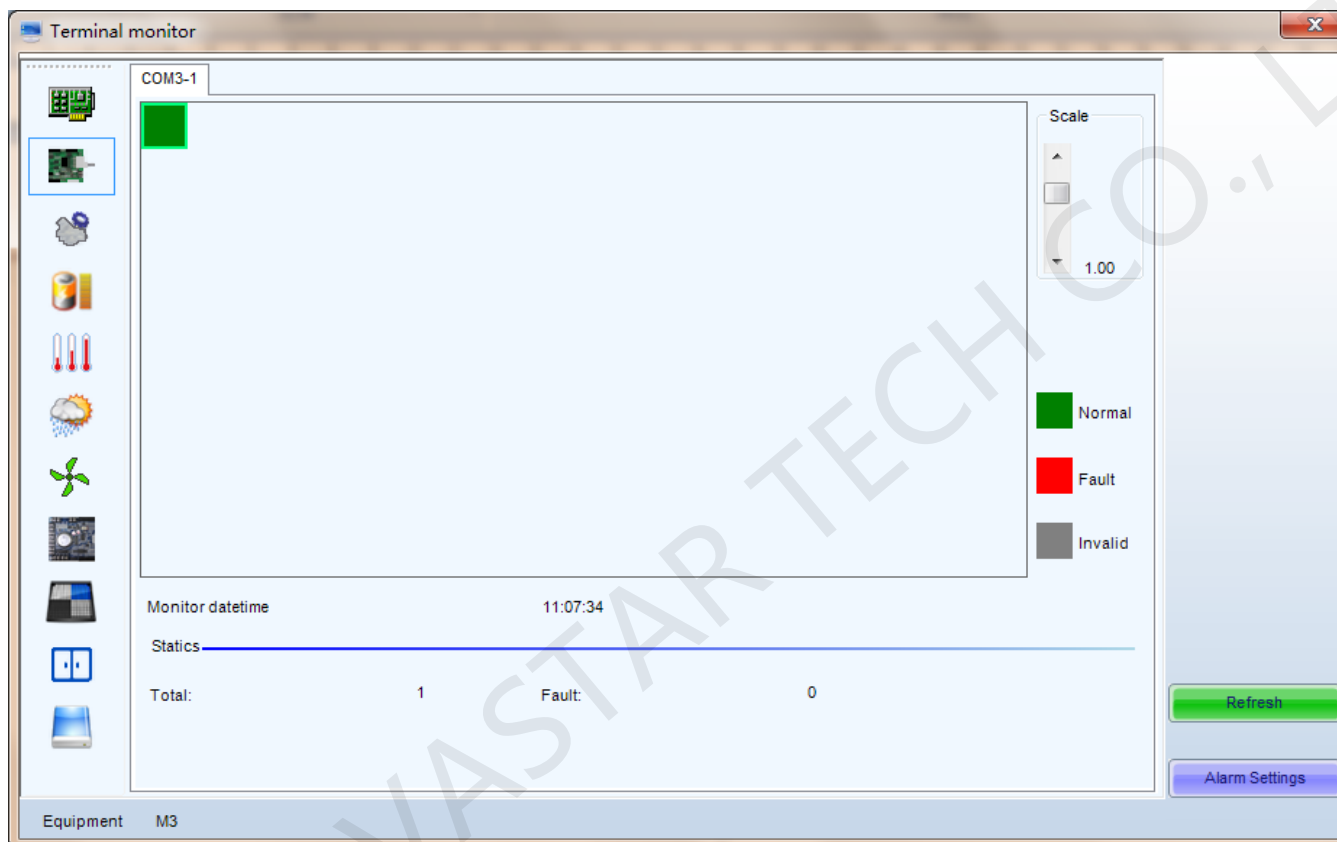


5.5.2 System monitoring

Nova Cloud system provides a tool that can remotely monitor the operation by operating with control and monitor system of NovaStar which is easy for maintenance by operator and provides higher efficiency for guaranteeing normal operation of terminal display system.

"Terminal monitor" page, its display in the same way as NovaLCT.





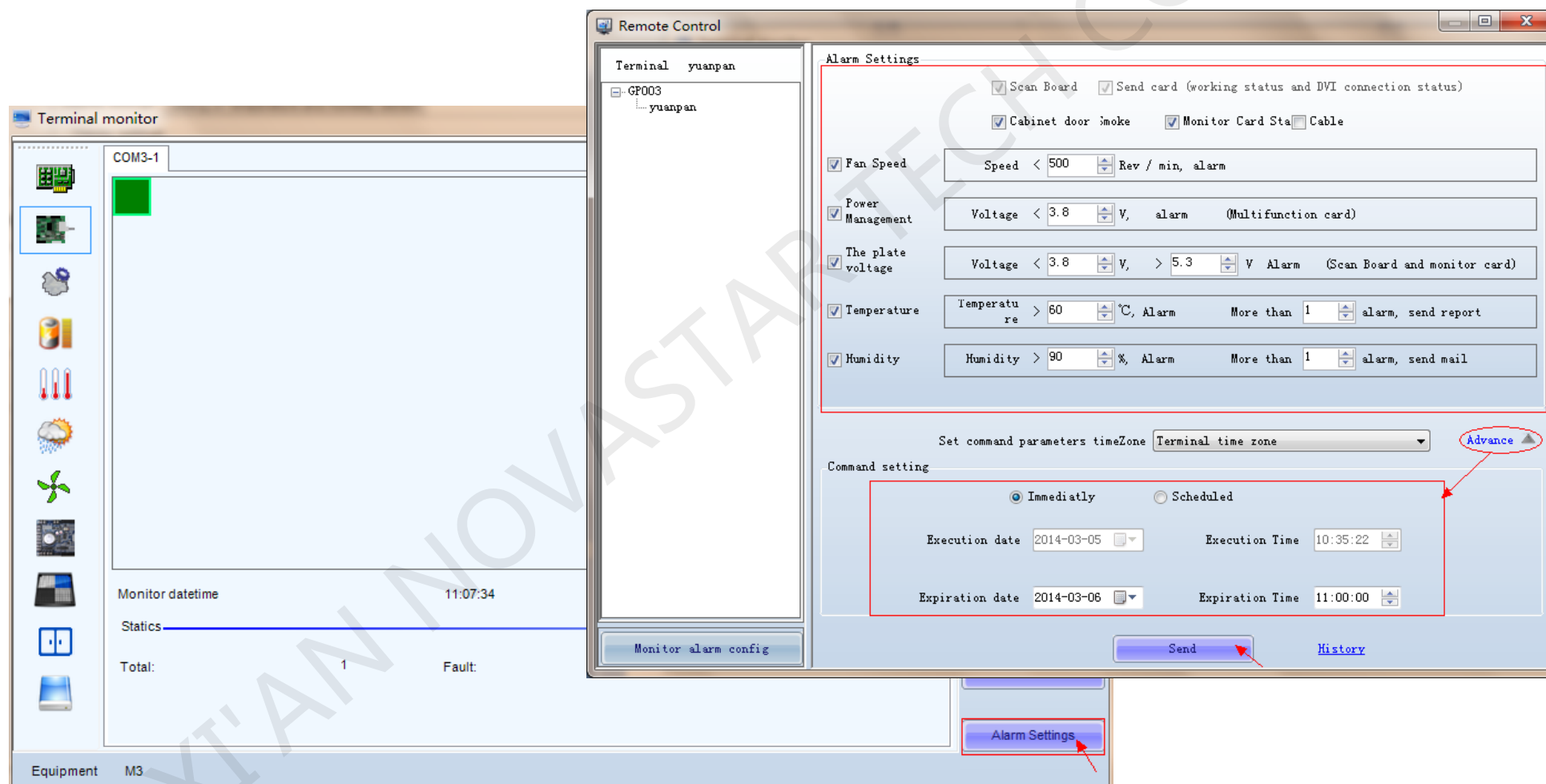
5.5.3 Alarm monitoring

View the abnormal state alarms of all hardware of terminal, count the alarm number, and timely determine the specific areas with faults and the fault occurrence times.

1) Alarm setting

Set the alarm conditions, and then send to the terminal, and when any one condition is satisfied, the terminal shall alarm the system.

Set the alarm conditions, and then send to the terminal, and when any one condition is satisfied, the terminal shall alarm the system.



2) Alarm monitoring

The screenshot shows the NovaStar MC-go software interface. The main window displays a table of terminal status for GP001. The 'Alarm monitoring' tab is selected, indicated by a red arrow. An 'Alarm View' dialog box is open, showing a list of alarm types with checkboxes. The 'All' checkbox is selected. The 'Device Time' is set to 2014/1/26 to 2014/2/26. The 'Alarm View' dialog box has a red border and a red circle around the 'Type' dropdown menu.

status	Termi	Termi	Group	Resol	Playin	Down	Desktop Snapshot	Address
<input type="checkbox"/>	test01	Sync	GP001	200*200				
<input type="checkbox"/>	pluto1	Async	GP001	384*384				
<input type="checkbox"/>	pluto3	Async	GP001	384*256				
<input checked="" type="checkbox"/>	zl-	Sync	GP001	200*200	fa.cplym			
Monitoring Information Alarm monitoring Snapshot								
<input type="checkbox"/>	!@#\$\$%^	Sync	GP001	128*128				

Server IP 192.168.0.187 User Identity zxn 心跳成功

Alarm View

Type ☐ All ☐ sendingCardStatus ☐ monitorCardStatus ☐ cableDoor ☐ fanSpeed ☐ flatCable ☐ functionCardVolt ☐ humidityOfMonitorCard ☐ humidityOfScanCard ☐ receivingCardStatus ☐ receivingCardVolt ☐ smoke

Device Time 2014/1/26 To 2014/2/26 Inquire Export Statistics

Device Time	Infomation	Position	Time Zone
-------------	------------	----------	-----------